Governmental Agencies

Building Department

ST. LOUIS COUNTY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF BUILDING PERMITS
41 SOUTH CENTRAL
6TH FLOOR
CLAYTON, MO 63105
PHONE: 314-615-5184
FAX: 314-615-7085

Fire Department

MONARCH FIRE PREVENTION DISTRICT
13725 OLIVE BOULEVARD
CHESTERFIELD, MO 63017
PHONE: 314-514-0900
FAX: 314-514-0696
CONTACT: NEAL BROCKMILLER

Health Department

ST. LOUIS COUNTY HEALTH DEPARTMENT
DIVISION OF ENVIRONMENTAL PROTECTION, FOOD & ENVIRONMENTAL BRANCH
111 S. MERAMEC, 2ND FLOOR
CLAYTON, MO 63105
PHONE: 314-615-8900

Building Codes

3 4

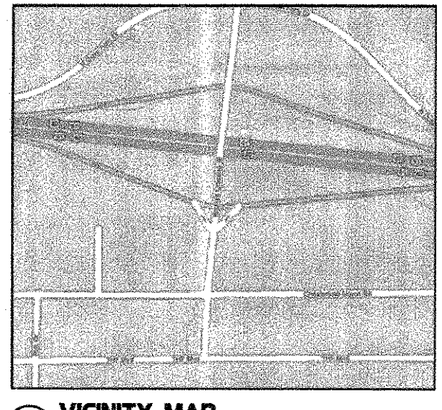
BUILDING CODE:
INTERNATIONAL BUILDING CODE 2003
PLUMBING CODE:
UNIFORM PLUMBING CODE 2003
MECHANICAL CODE:
INTERNATIONAL MECHANICAL CODE 2003
ELECTRICAL CODE:
NEC 2005
FIRE CODE:
INTERNATIONAL FIRE CODE 2003
W/ 2005 MODIFICATIONS BY MFPD
NOTE:
SEE A4.0 FOR
ACCESSIBILITY NOTES
LIFE SAFETY NOTES
CODE SUMMARIES

FOR CONSTRUCTION

4

BUILDING SUMMARY - IBC 2003

1.	OCCUPANCY	- A2 RESTAURANT	
2.	CONTSTRUCTION TYPE	- VB NON-SPRINKLERED	
3.	FLOOR AREA	6000 SQ. FT ALLOWABLE / 4227 PROPOSED (SINGLE STORY)	
4.	ALLOWABLE HEIGHT	40' ALLOWABLE / 25' PROPOSED	
5.	FIRE SEPARATION DISTANCE	>30'	
6.	OCCUPANT LOAD		
	DINING AREAS	1397 SQ. FT./15 NET SQ. FT. PERSON	= 93
	PLAY AREA	324 SQ. FT./15 NET SQ. FT. PERSON	= 22
	KITCHEN	1735 SQ. FT./200 GROSS SQ. FT. PERSON	= 9
	ORDER AREA	347 SQ. FT./5 NET SQ. FT. PERSON	= 69
	TOTAL		= 193
	USE STATISTICS ALL FOR SEAT COUNT		
7.	REQUIRED WIDTH OF EGRESS -	193 PEOPLE X .2 = 39"	
8.	WIDTH OF EGRESS PROVIDED-	DOOR #2	= 72"
		DOOR #10	= 42"
		DOOR #17	= 36"
		TOTAL	= 150"



1 **VICINITY MAP**
NOT TO SCALE

Chick-fil-A

5200 BUFFINGTON ROAD
ATLANTA, GEORGIA 30349-2998
PHONE: (404) 765-8000
FAX: (404) 684-8550

SERIES 06C - REVERSE

CHESTERFIELD COMMONS
CHESTERFIELD, MO
JULY 25, 2006

1 8/21/06 FIRE DISTRICT COMMENTS
2 12/6/06 DEVELOPER COMMENTS
3 12/29/06 FIRE DISTRICT COMMENTS
4 1/23/07 ST. LOUIS COUNTY COMMENTS
5 3/7/07 HEALTH DEPARTMENT COMMENTS

FOR CONSTRUCTION

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	C-1.1	SURVEY
	C-2.0	SITE PLAN
	C-3.0	GRADING AND DRAINAGE PLAN
	C-3.2	STORM SEWER PROFILES
	C-3.3	EROSION CONTROL PLAN
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	C-4.1	CHICK-FIL-A SITE DETAILS
	C-4.2	CHICK-FIL-A SITE DETAILS
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	PS-1.0	PLUMBING SITE PLAN
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3	A-1.5	REFLECTED CEILING PLAN
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	A-1.7	ROOF PLAN
	A-1.8	DETAILS
	A-1.9	SERVICE YARD
2	A-2.1	EXTERIOR ELEVATIONS
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	A-5.3	INTERIOR ELEVATIONS
	A-5.4	INTERIOR ELEVATIONS
	A-5.5	INTERIOR ELEVATIONS
	A-5.6	INTERIOR ELEVATIONS
	A-5.7	INTERIOR ELEVATIONS
	S-1.1	FOUNDATION PLAN
	S-1.2	SLAB LAYOUT PLAN
	S-2.1	ROOF FRAMING PLAN
	S-3.1	FOUNDATION & FRAMING
	S-3.2	DETAILS
	S-4.1	SCHEDULES & DETAILS
	S-5.1	FRAMING DETAILS
	S-6.1	STRUCTURAL SPECIFICATIONS
3	M-1.1	MECHANICAL FLOOR PLAN
	M-2.1	HOOD DETAILS & SCHEDULES
3	M-3.1	HVAC DETAILS & SCHEDULES
	M-4.1	MECHANICAL SPECIFICATIONS
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	P-2.1	WATER PIPING PLAN
	P-3.1	SLAB ROUGH-IN PLAN
	P-4.1	ROOF PIPING PLAN
	P-5.1	PLUMBING ISOMETRICS
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	ES-2.1	SITE PLAN DETAILS & NOTES
	ES-3.1	ELECTRICAL SITE PHOTOMETRICS
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	E-1.2	EQUIPMENT SCHEDULE DETAILS
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	E-2.2	POWER AND SYSTEMS PLAN & NOTES
	E-2.3	ROOF ELECTRICAL PLAN
3	E-2.4	LARGE SCALE POWER PLAN
	E-2.5	LARGE SCALE POS PLAN
3	E-3.1	PANELBOARD SCHEDULES
	E-3.2	SINGLE LINE DIAGRAM & NOTES
	E-4.1	ELECTRICAL SPECIFICATIONS
	E-4.2	ELECTRICAL SPECIFICATIONS
	K-1.1	PARTIAL EQUIPMENT PLAN - DINING
	K-1.2	PARTIAL EQUIPMENT PLAN -
	K-2.1	KITCHEN EQUIPMENT SCHEDULE
	K-2.2	EQUIPMENT SCHEDULE
	K-3.1	ELECTRICAL ROUGH-IN ELEVATIONS
	K-3.2	ELECTRICAL ROUGH-IN ELEVATIONS
	K-3.3	ELECTRICAL ROUGH-IN ELEVATIONS
	K-3.4	ELECTRICAL ROUGH-IN ELEVATIONS
	K-4.1	PLUMBING ROUGH-IN ELEVATIONS

Items of Importance

1. BUILDING EXTERIOR FINISH MATERIALS AND DETAILING HAVE BEEN REVISED TO MEET CITY DESIGN GUIDELINES.
2. PANIC HARDWARE HAS BEEN SPECIFIED FOR EGRESS DOORS. REFER TO SHEET A1.3.
3. EXTERIOR BUILDING LIGHTING HAS BEEN MODIFIED PER DEVELOPER REQUIREMENTS SEE SHEETS A2.1, A2.2, .
4. GYPSUM BOARD ADDED IN CONCEALED TOWER SPACES TO PROTECT RIGID INSULATION PER FIRE MARSHAL COMMENTS. SEE A3.2 AND A3.3.
5. STOREFRONT AND DRIVE-THRU WINDOW FRAMES TO BE BLACK IN COLOR
6. FLY FAN ADDED ABOVE SERVICE DOOR IN KITCHEN PER HEALTH DEPARTMENT COMMENTS
7. PENDANT LIGHTS REMOVED FROM DINING ROOM AND TWO FLOURESCENT FIXTURES RELOCATED IN KITCHEN, PER HEALTH AND ELECTRICAL COMMENTS.

THE CERTIFYING ARCHITECT OF RECORD IDENTIFIED ON THESE DOCUMENTS HAS UTILIZED "STANDARD" OR "PROTOTYPICAL" CONSTRUCTION DOCUMENTS IN THE DEVELOPMENT OF THESE DOCUMENTS. THE PROJECT OWNER PROVIDES THE PROTOTYPE CONSTRUCTION DOCUMENTS AND A PERMISSION LETTER FROM THE ORIGINAL ARCHITECT IS ON FILE IN THE CERTIFYING ARCHITECT'S OFFICE. THE SERVICES PROVIDED BY THE CERTIFYING ARCHITECT INCLUDE EXAMINATION AND REVIEW OF THE PROTOTYPICAL DOCUMENTS, MODIFICATIONS FOR SPECIFIC SITE ADAPTATION REQUIREMENTS, RESEARCH AND REVIEW WITH LOCAL REGULATORY AGENCY OFFICIALS PRIOR TO SUBMISSION OF DOCUMENTS FOR BUILDING PERMIT REVIEW, AND COORDINATION AND MODIFICATIONS OF THE DOCUMENTS TO ESTABLISH COMPLIANCE WITH LOCAL REGULATORY AGENCY REQUIREMENTS. THE CERTIFYING ARCHITECT HEREBY ASSUMES PROFESSIONAL RESPONSIBILITY FOR THE ADEQUACY OF THESE DOCUMENTS. IN MOST INSTANCES, THE CERTIFYING ARCHITECT HAS NOT BEEN ENGAGED TO PERFORM CONSTRUCTION PERIOD SERVICES.

FOR CONSTRUCTION

Architect:
EDWARDS + HOTCHKISS ARCHITECTS, P.C.
219 WARD CIRCLE
BRENTWOOD, TN 37027
PHONE: 615-377-3111
FAX: 615-377-0978

Structural Engineer:
BRITTINGHAM & ASSOC.
5855 JIMMY CARTER BLVD.
NORCROSS, GA 30071
PHONE: 770-441-2340
FAX: 770-446-5804

Mechanical Engineer:
BENNOR ENGINEERING, LLC.
3000 LANGFORD ROAD
BUILDING 2400
NORCROSS, GEORGIA 30071
PHONE: 770-729-1422
FAX: 770-729-0490

Plumbing Engineer:
BENNOR ENGINEERING, LLC.
3000 LANGFORD ROAD
BUILDING 2400
NORCROSS, GEORGIA 30071
PHONE: 770-729-1422
FAX: 770-729-0490

Electrical Engineer:
KURZYNSKE AND ASSOC.
625 THIRD AVENUE, SOUTH
NASHVILLE, TN 37210
PHONE: 615-255-5203
FAX: 615-255-5207

Civil Engineer:
PBS&J
5665 NEW NORTHSIDE DRIVE, SUITE 400
ATLANTA, GA 30328
PHONE: 770-933-0280
FAX: 770-933-0971

Landscape Architect:
MANLEY LAND DESIGN
51 OLD CANTON ST.
ALPHARETTA, GA 30004
PHONE: 770-442-8171
FAX: 770-442-1123

MAR 2 4 2007

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
3	12/29/06	rw
fire department comments		
4	1/23/07	rw
st. louis county comments		

Mark	Date	By
5	3/7/07	rw
health department comments		

EDWARDS + HOTCHKISS ARCHITECTS, P.C.
THE HORSE BARN AT MARYLAND FARMS
219 WARD CIRCLE, SUITE 1
BRENTWOOD, TENNESSEE 37027-7593
PHONE: 615/377-3111
FAX: 615/377-0978
E-MAIL: general@eandharch.com

e+h ARCHITECTS

STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
TITLE SHEET

DWG EDITION 05.9
REVISION –

Job No. : -----
Store : 1976
Date : -----
Drawn By : ---
Checked By: ---

Sheet
T-1.1

CIVIL ENGINEERING IMPROVEMENT PLANS

FOR

FOR CONSTRUCTION ONLY

LIST OF UTILITY OWNERS

WATER: ST. LOUIS COUNTY WATER COMPANY
(MISSOURI AMERICAN WATER)
535 NORTH NEW BALLAS ROAD
ST. LOUIS, MO. 63141
ROBERT CHITWOOD
(314) 991-3404
(314) 342-7824 fax

SEWER: ST. LOUIS METROPOLITAN SEWER DISTRICT
2350 MARKET STREET
ST. LOUIS, MO. 63103
(314) 768-6200
(314) 768-6342 fax

ELECTRIC: AMEREN UE
280 OLD STATE ROAD
ELLISVILLE, MO. 63021
LES NOLEN
(314) 992-8903
(314) 992-8950 fax

PHONE: SOUTHWEST BELL TELEPHONE COMPANY
14780 MANCHESTER ROAD
BALLWIN, MO. 63011
BILL SLIZEWSKI
(314) 256-1507
(314) 256-1510 fax

GAS: LACLEDE GAS COMPANY
720 OLIVE, ROOM 1408
ST. LOUIS, MO. 63101
(314) 342-0686
(314) 342-9577 fax

REFERENCE DOCUMENTS

ITEM	FIRM	DATE
ALTA/ACSM SURVEY	FREELAND-KAUFFMAN & FREDEEN, INC.	4-12-06
SIGN SURVEY	CLAYTON SIGNS, INC.	4-13-06
GEOTECHNICAL EXPLORATION REPORT	GILES ENGINEERING AND ASSOCIATES	5-9-06
LIGHTING PLAN	KURZYNSKE & ASSOCIATES CONSULTING ENGINEERS	5-26-06

THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.

The Property Owner/Developer hereby certifies that he is familiar with the SWPPP and assumes full responsibility for the performance and maintenance of the SWPPP as stated on the approved plans. He will ensure that all contractors understand and are familiar with the SWPPP for the site and that each contractor agrees to implement and protect elements of the SWPPP as they relate to his work. The Property Owner's/ Developer's onsite representative shall be responsible for the performance and maintenance of the SWPPP. In addition, the undersigned Owner/Developer assures that all City property or roads will be adequately protected.

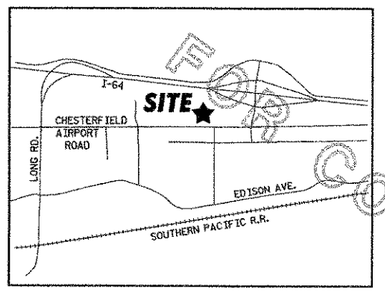
Chick-fil-A, Inc.

Developer's Emergency Contact: Tim Mangan
404-765-8000

OWNER/DEVELOPER:

CHICK-FIL-A, INC.

5200 BUFFINGTON ROAD
ATLANTA, GA 30349
24 HR. CONTACT: SCOTT PATMAN
404-305-4594



VICINITY MAP

N.T.S.

CHICK-FIL-A AT
CHESTERFIELD COMMONS NORTH
17365 CHESTERFIELD AIRPORT ROAD
CHESTERFIELD, MISSOURI 63005

PREPARED BY:

PBS&J

5665 NEW NORTHSIDE DRIVE, SUITE 400
ATLANTA, GEORGIA 30328
(770) 933-0280
CONTACT: TODD M. ROGERS, P.E.

GEOTECHNICAL ENGINEER'S STATEMENT

Giles Engineering Associates, Inc., at the request of Chick-fil-A, Inc., has provided services for the project proposed hereon. A geotechnical exploration was conducted for this project, the findings of which indicate that the earth-related aspects are suitable for the development proposed hereon pursuant to the geotechnical recommendations set forth in our May 9, 2006 report, titled Geotechnical Engineering Exploration and Analysis - Giles Project No. 1G-0604006.

GILES ENGINEERING ASSOCIATES, INC.

STATE OF MISSOURI TERRY L. GILES NUMBER E-18450 PROFESSIONAL ENGINEER

Terry L. Giles, P.E., C.E.
Missouri Registration No. E-18450
Date 11-03-06

INDEX TO DRAWINGS

SHEET NO.	TITLE
C-1.0	COVER SHEET
	ALTA/ACSM SURVEY
C-2.0	SITE PLAN
C-3.0	GRADING AND DRAINAGE PLAN
C-3.2	STORM SEWER PROFILES
C-3.3	EROSION CONTROL PLAN
C-4.0	CHICK-FIL-A SITE DETAILS
C-4.1	CHICK-FIL-A SITE DETAILS
C-4.2	CHICK-FIL-A SITE DETAILS
C-5.0	CONSTRUCTION DETAILS
PS-1.0	PLUMBING SITE PLAN
PS-1.1	SANITARY SEWER PROFILES
L-1.0	LANDSCAPE PLAN
L-2.0	IRRIGATION PLAN
ES1.1	ELECTRICAL SITE PLAN
ES2.1	ELECTRICAL SITE PLAN DETAILS & NOTES

ST. LOUIS COUNTY BENCH MARKS:
(PER PLAT BK. 352, PG. 210-211)

12-171 460.06 -- "STANDARD ALUMINUM DISK" STAMPED SL-38 1990. DISK IS SET AT THE NORTHWEST CORNER OF CHESTERFIELD AIRPORT ROAD AND CAPRICE DRIVE.

MSD P# 27330-00
BASE MAP 17U3

REVISIONS
1.
2.
3.
4.
5.
6.

48 HOURS BEFORE YOU DIG CALL MISS DIG (800) 344-7483 (TOLL FREE)
PRIOR TO CONSTRUCTION FOR UNDERGROUND UTILITY LOCATION

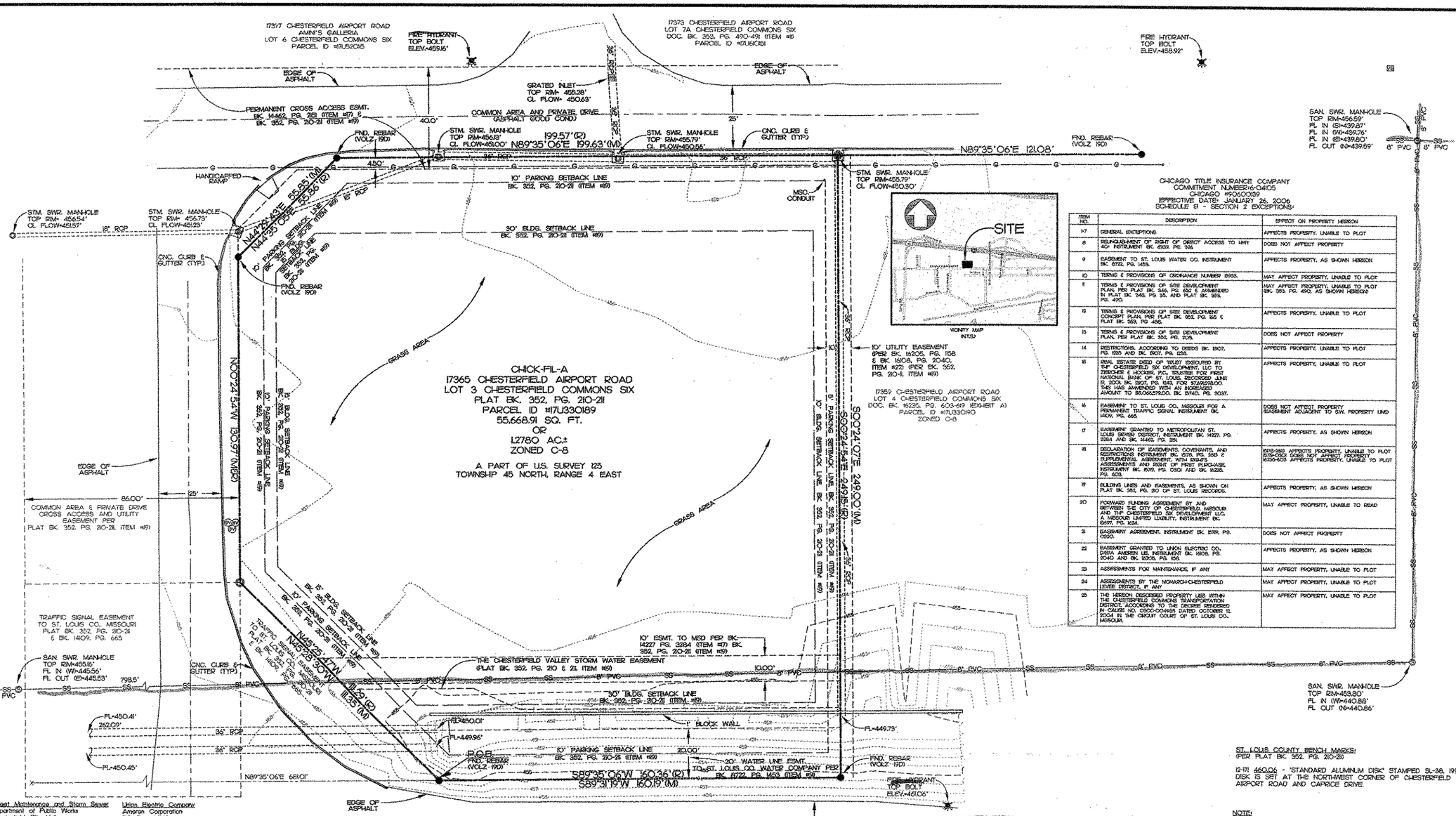
SHEET C-1.0
JUNE 08, 2006
06-1781.00

FOR CONSTRUCTION ONLY

DATE	INITIAL	
		QAP REVIEW
		PROGRAM MGR. REVIEW
		DIVISION MGR. REVIEW

		KICKOFF MEETING
		CONCEPT REVIEW
		CONSTRUCTABILITY

12-MAR-2007
I:\2006\06-1781-chesterfield\deliverable\cover.dgn



CHICAGO TITLE INSURANCE COMPANY
COMMITMENT NUMBER16-041105
CHICAGO #90600139
EFFECTIVE DATE: JANUARY 26, 2006
SCHEDULE B - SECTION 2 EXCEPTIONS:

ITEM NO.	DESCRIPTION	EFFECT ON PROPERTY HEREON
1-7	GENERAL EXCEPTIONS	AFFECTS PROPERTY, UNABLE TO PLOT
8	RELINQUISHMENT OF RIGHT OF DIRECT ACCESS TO HWY 40+ INSTRUMENT BK. 6933, PG. 398	DOES NOT AFFECT PROPERTY
9	EASEMENT TO ST. LOUIS WATER CO. INSTRUMENT BK. 6722, PG. 1453	AFFECTS PROPERTY, AS SHOWN HEREON
10	TERMS & PROVISIONS OF ORDINANCE NUMBER 8953.	MAY AFFECT PROPERTY, UNABLE TO PLOT
11	TERMS & PROVISIONS OF SITE DEVELOPMENT PLAN, PER PLAT BK. 346, PG. 652 & AMENDED IN PLAT BK. 346, PG 30, AND PLAT BK. 353, PG. 490.	MAY AFFECT PROPERTY, UNABLE TO PLOT BK. 353, PG. 490, AS SHOWN HEREON
12	TERMS & PROVISIONS OF SITE DEVELOPMENT CONCEPT PLAN, PER PLAT BK. 352, PG. 165 & PLAT BK. 353, PG 486.	AFFECTS PROPERTY, UNABLE TO PLOT
13	TERMS & PROVISIONS OF SITE DEVELOPMENT PLAN, PER PLAT BK. 356, PG. 303.	DOES NOT AFFECT PROPERTY
14	RESTRICTIONS, ACCORDING TO DEEDS BK. 11607, PG. 1235 AND BK. 11607, PG. 1235.	AFFECTS PROPERTY, UNABLE TO PLOT
15	REAL ESTATE DEED OF TRUST EXECUTED BY THF CHESTERFIELD SIX DEVELOPMENT, LLC TO ZIESCHER & HOCKER, P.C., TRUSTEE FOR FIRST NATIONAL BANK OF ST. LOUIS, DATED JUNE 23, 2004, BK. 11607, PG. 1243, FOR $7,849,818.00, THIS WAS AMENDED WITH AN INCREASED AMOUNT TO $8,066,818.00, BK. 11740, PG. 3037.	AFFECTS PROPERTY, UNABLE TO PLOT
16	EASEMENT TO ST. LOUIS CO., MISSOURI FOR A PERMANENT TRAFFIC SIGNAL INSTRUMENT BK. 14809, PG. 665.	DOES NOT AFFECT PROPERTY, EASEMENT ADJACENT TO SW. PROPERTY LINE
17	EASEMENT GRANTED TO METROPOLITAN ST. LOUIS SEWER DISTRICT, INSTRUMENT BK. 14227, PG. 3284 AND BK. 14462, PG. 281.	AFFECTS PROPERTY, AS SHOWN HEREON
18	DECLARATION OF EASEMENTS, COVENANTS, AND RESTRICTIONS INSTRUMENT BK. 8378, PG. 280 & SUPPLEMENTAL AGREEMENT, WITH EXHIBITS ASSESSMENTS AND RIGHT OF FIRST PURCHASE, INSTRUMENT BK. 8378, PG. 0501 AND BK. 16235, PG. 603.	8378-280, AFFECTS PROPERTY, UNABLE TO PLOT 8378-0501 DOES NOT AFFECT PROPERTY 16235-603, AFFECTS PROPERTY, UNABLE TO PLOT
19	BUILDING LINES AND EASEMENTS, AS SHOWN ON PLAT BK. 352, PG. 210 OF ST. LOUIS RECORDS.	AFFECTS PROPERTY, AS SHOWN HEREON
20	FORWARD FUNDING AGREEMENT BY AND BETWEEN THE CITY OF CHESTERFIELD, MISSOURI AND THF CHESTERFIELD SIX DEVELOPMENT LLC, A MISSOURI LIMITED LIABILITY, INSTRUMENT BK. 15697, PG. 1024.	MAY AFFECT PROPERTY, UNABLE TO READ
21	EASEMENT AGREEMENT, INSTRUMENT BK. 8378, PG. 0930.	DOES NOT AFFECT PROPERTY
22	EASEMENT GRANTED TO UNION ELECTRIC CO. D/B/A AMEREN UE, INSTRUMENT BK. 16108, PG. 2040 AND BK. 16205, PG. 1158.	AFFECTS PROPERTY, AS SHOWN HEREON
23	ASSESSMENTS FOR MAINTENANCE, IF ANY	MAY AFFECT PROPERTY, UNABLE TO PLOT
24	ASSESSMENTS BY THE MONARCH-CHESTERFIELD LEVEE DISTRICT, IF ANY	MAY AFFECT PROPERTY, UNABLE TO PLOT
25	THE HEREON DESCRIBED PROPERTY LIES WITHIN THE CHESTERFIELD COMMONS TRANSPORTATION DISTRICT, ACCORDING TO THE DECREE RENDERED IN CAUSE NO. 03CC-004693 DATED OCTOBER 13, 2004 IN THE CIRCUIT COURT OF ST. LOUIS CO., MISSOURI.	MAY AFFECT PROPERTY, UNABLE TO PLOT

ST. LOUIS COUNTY BENCH MARKS:
(PER PLAT BK. 352, PG. 210-211)

12-171 460.06 - "STANDARD ALUMINUM DISK" STAMPED SL-38, 1990. DISK IS SET AT THE NORTH-WEST CORNER OF CHESTERFIELD AIRPORT ROAD AND CAPRICE DRIVE.

NOTE:

ALL MATTERS SHOWN ON THE RECORDED PLAT WITH RESPECT TO THE SUBJECT PROPERTY AS SHOWN HEREIN.

FLOOD CERTIFICATION:

I CERTIFY THAT I HAVE EXAMINED THE F.I.A. OFFICIAL FLOOD INSURANCE HAZARD RATE MAP NUMBER 29189C0040 H (EFFECTIVE DATE AUGUST 2, 1995) AND FOUND THE DESCRIBED PROPERTY HEREON LIES IN ZONE "X", AREAS OF 500-YEAR FLOOD, AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE, AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOOD.

TO CHICK-FIL-A, INC. AND CHICAGO TITLE INSURANCE COMPANY:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND HAS BEEN PERFORMED IN ACCORDANCE WITH "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS" AND MEETS THE ACCURACY REQUIREMENTS OF A CLASS "A" SURVEY AS DEFINED HEREIN.

S. CRAIG DAVIS, P.L.S. NO. 2357, MISSOURI — DATE 5-19-06

STATE OF MISSOURI
LS-2357
S. CRAIG DAVIS
LAND SURVEYOR

SCALE 1" = 20' FEET

Street Maintenance and Storm Sewer	Department of Public Works Chesterfield City Hall 690 Chesterfield Pkwy W Chesterfield, MO 63017-0670 Phone: (636) 537-4000 Fax: (636) 537-4798 Email: info@chesterfield.mo.us
Potable Water Service	Missouri-American Water Company Phone: (314) 991-0335 Web: www.mawc.com
Sanitary Sewer	Metropolitan St. Louis Sewer District 2000 Hampton Ave St. Louis, Mo. 63139 Phone: (314) 768-6230 Web: www.msdst-louis.mo.us
Union Electric Company	Ameren Corporation PO Box 66149 St. Louis, MO 63166-6149 Phone: (314) 342-1111 Fax: (314) 206-0485 Email: SolutionCenter@ameren.com Web: www.ameren.com/
Natural Gas	Laclede Gas Phone: (314) 621-6960 Web: www.lacledegas.com
Cable Company	Charter Communications Web: www.charter.com
Telephone	Southwestern Bell Telephone

NOTES:

1. BASIS OF BEARINGS: THE NORTH LINE OF LOT 3, CHESTERFIELD COMMONS SIX, PLAT BOOK 352, PAGE 210-211.
2. DECLARATION IS MADE TO ORIGINAL PURCHASER OF THE SURVEY. IT IS NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.
3. THIS SURVEY IS VALID ONLY IF THE DRAWING INCLUDES THE SEAL AND SIGNATURE OF THE SURVEYOR.
4. THE PROPERTY SHOWN HEREON IS ZONED C-8 (PLANNED COMMERCIAL) AND IS WITHIN THE CITY LIMITS OF CHESTERFIELD, MISSOURI. THE FRONT, SIDE AND REAR YARD REGULATIONS ARE AS FOLLOWS:
   FRONT YARD: 30 FEET
   SIDE YARD (INTERIOR): 10 FEET
   SIDE YARD (EXTERIOR): 15 FEET
   REAR YARD: 30 FEET
   THIS IS PER THE REQUIREMENTS OF THE CITY OF CHESTERFIELD, MISSOURI.
5. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED THE SURVEYOR, IF ANY. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/ STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THE SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES.
6. THE LOCATION AND/OR EXISTENCE OF UTILITY SERVICE LINES TO THE PROPERTY SURVEYED ARE SHOWN HEREON OR UNKNOWN.
7. SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP, TITLE EVIDENCE, OR ANY OTHER FACTS WHICH AN ACCURATE AND CURRENT TITLE COMMITMENT MAY DISCLOSE.
8. ALL BUILDING, SURFACE AND SUBSURFACE, IMPROVEMENTS ON AND ADJACENT TO THE SITE ARE NOT NECESSARILY SHOWN.
9. NO INVESTIGATION CONCERNING ENVIRONMENTAL AND SUBSURFACE CONDITIONS, OR THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES WHICH MAY AFFECT THE USE OF DEVELOPMENT OF THIS PROPERTY WAS MADE AS A PART OF THIS SURVEY.

LEGAL DESCRIPTION:

LOT 3 OF THE CHESTERFIELD COMMONS SIX, PER PLAT RECORDED IN PLAT BOOK 352, PAGES 210 AND 211 OF THE ST. LOUIS COUNTY RECORDS, BEING A PART OF U.S. SURVEY 125, TOWNSHIP 45 NORTH, RANGE 4 EAST, ST. LOUIS COUNTY, MISSOURI, AND BEING MORE PARTICULARLY DESCRIBED AS:

COMMENCING AT THE INTERSECTION OF THE NORTH RIGHT-OF-WAY LINE OF CHESTERFIELD AIRPORT ROAD, VARYING WIDTH (BK. 14809, PG. 665), AND THE EAST LINE OF SHARE NO. 1 OF THE SUBDIVISION OF THE ESTATE OF PETER STEFFAN (BK. 150, PG. 457), THENCE N89°35'06"E 681.01 FEET TO THE POINT OF BEGINNING; THENCE N45°28'30"W 11.35 FEET, THENCE N00°24'54"W 130.97 FEET, THENCE N44°29'43"E 85.85 FEET, THENCE N89°35'06"E 199.63 FEET, THENCE S00°24'54"E 249.00 FEET TO THE NORTH RIGHT-OF-WAY LINE OF CHESTERFIELD AIRPORT ROAD, THENCE ALONG SAID NORTH RIGHT-OF-WAY LINE S89°31'19"W 160.19 FEET TO THE POINT OF BEGINNING, CONTAINING 55,668.91 SQUARE FEET OR 1.2780 ACRES, MORE OR LESS, AND SUBJECT TO ALL RIGHTS-OF-WAY, EASEMENTS AND RESTRICTIVE COVENANTS OF RECORD OR FACT.

LEGEND

- FOUND REBAR/PIPE (AS NOTED)
- SET 1/2" REBAR W/CAP, LS 1370
- STORM SEWER MANHOLE
- SANITARY SEWER MANHOLE
- FIRE HYDRANT
- SPRINKLER VALVE
- TELEPHONE RISER
- GAS METER
- ELECTRIC VAULT
- GRATED INLET
- UTILITY POLE
- G — G GAS LINE
- W — W WATER LINE
- SS — SS SANITARY SEWER LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- FLOWLINE
- SETBACK LINE
- EASEMENT LINE
- 697.3 CONTOUR LINE
- +450.00 SPOT ELEVATION

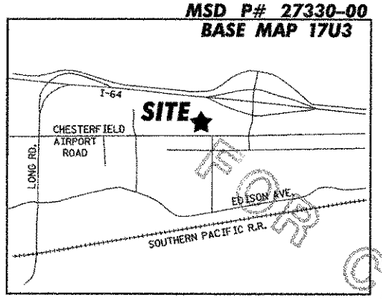
RECORDING INFORMATION

The essential building blocks...
FKF
Civil Engineers - Landscape Architects - Land Surveyors
Freeland - Kauffman & Fredeen, Inc.
17700 West Commerce Drive, Suite A
Rogers, AR 72756
Telephone 479-621-0599
Fax 479-621-0602
Affiliate Freeland and Kaufman, Inc. Greenville, SC

CHICK-FIL-A
17365 CHESTERFIELD AIRPORT ROAD
CHESTERFIELD, ST. LOUIS CO., MISSOURI
ALTA/ACSM SURVEY

DRAWN	MDH
CHECKED	SCD
DATE	05-19-06
SCALE	1" = 20'
JOB No.	2006-140
SHEET	—
OF	— SHEETS

MSD P# 27330-00
BASE MAP 17U3



SITE IS LOCATED 1,450 FEET FROM BOONES CROSSING.

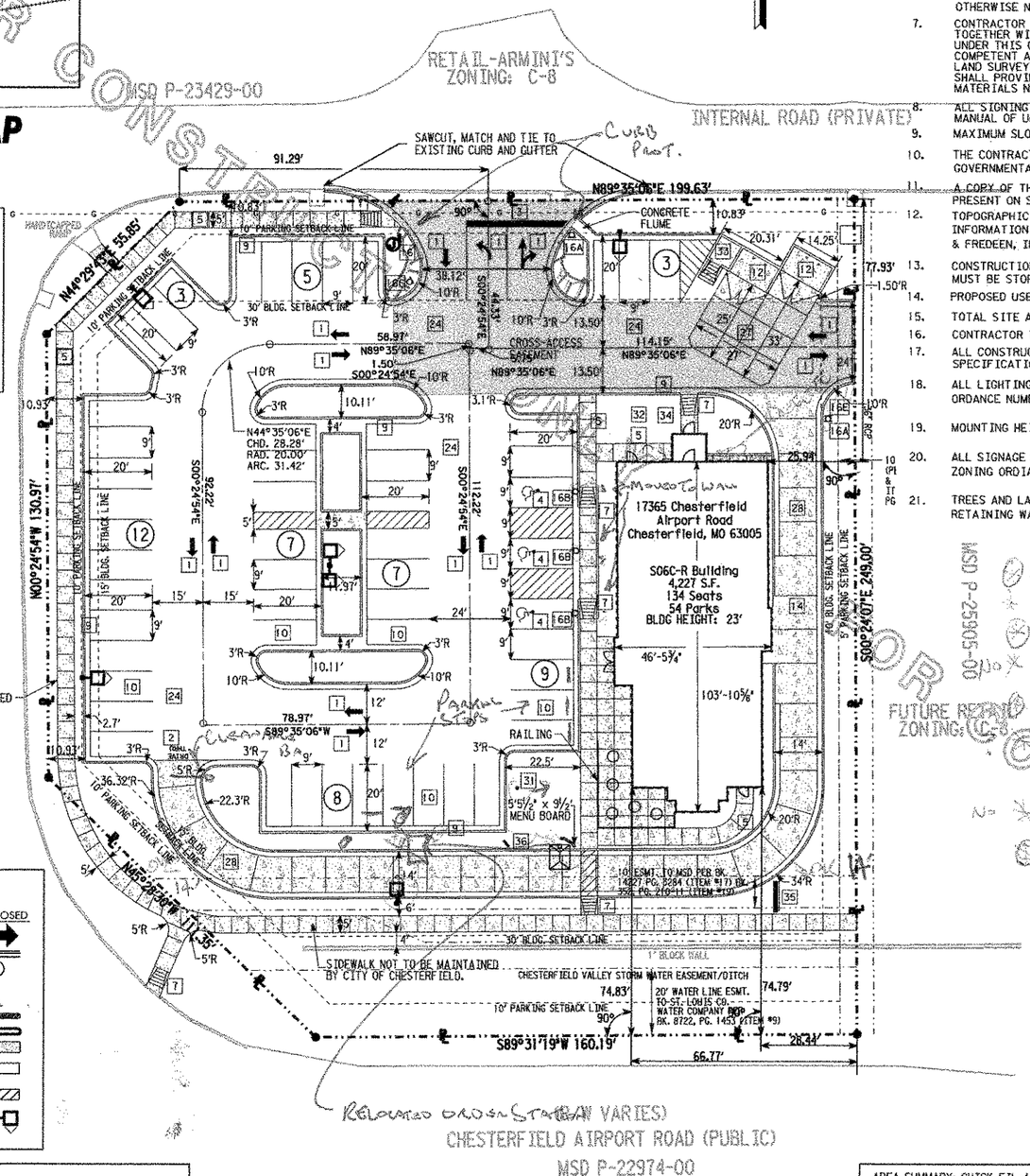
VICINITY MAP

N.T.S.

NOTICE: PEDESTRIAN SAFETY

THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO SEPARATE EACH WORK AREA FROM PEDESTRIAN TRAFFIC AND TO INSURE SAFE PEDESTRIAN PASSAGE AT ALL TIMES.

THE CONTRACTOR SHALL ALSO UTILIZE SAFE WARNING SIGNS, BARRICADES AND OTHER RELATED MEASURES, AS NECESSARY. THE CONTRACTOR SHALL COORDINATE PERIODICALLY WITH THE PROJECT MANAGER TO REVIEW SAFETY CONCERNS AND ADVISE OF ACTIVE WORK AREAS.



SITE PLAN LEGEND

EXISTING		PROPOSED
⇨	TRAFFIC CONTROL ARROW	➡
	CURB & GUTTER	
x	STANDARD PARKING QUANTITY	(x)
	ACCESSIBLE PARKING SPACE	
	STRIPED ISLAND	
	CURBED ISLAND	
	CONCRETE SURFACE	
	STANDARD DUTY ASPHALT PAVING	
	4" SWSL - 4" WIDE SINGLE WHITE SOLID LINE	
	LIGHT POLE	
	CROSS ACCESS EASEMENT	

NOTICE: EXISTING UTILITY LOCATIONS

PRIOR TO EXCAVATION AND INSTALLATION OF ANY UNDERGROUND UTILITY, STORM DRAINAGE FACILITIES, GRADING & PAVING, AND OTHER RELATED CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY LOCATING COMPANY. THE CONTRACTOR SHALL ALSO BE REQUIRED TO COORDINATE DIRECTLY (AS NECESSARY) WITH EACH APPLICABLE UTILITY AGENCY FOR APPROPRIATE FIELD LOCATION MARKING. THE CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED & MARKED TO PERFORM THE WORK IN A SAFE MANNER WITHOUT DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO EXISTING UTILITIES DURING CONSTRUCTION.
THE CONTRACTOR SHALL VERIFY THE LOCATION, DIAMETER, PIPE MATERIAL, AND ELEVATION OF EXISTING UTILITIES AND STRUCTURES, AS APPLICABLE, PRIOR TO CONSTRUCTION, AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

ALL ADJOINING PROPERTY IS OWNED BY THF REALTY.

20' 10' 0 20' 40'
SCALE: 1"=20'

SITE NOTES:

1. ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE ACTIVITY.
2. ALL CONSTRUCTION TO COMPLY WITH CITY OF CHESTERFIELD STANDARDS.
3. SITE ZONING IS HC.
4. TOTAL BUILDING AREA = 4,227 S.F.
5. ALL RADII ARE 3' UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, FACE OF STRUCTURE, EDGE OF PAVEMENT OR CENTERLINE AS APPLICABLE UNLESS OTHERWISE NOTED.
7. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING ALL LINES AND GRADES TOGETHER WITH ALL REFERENCE POINTS AS REQUIRED FOR ALL WORK UNDER THIS CONTRACT. ALL REQUIRED LAYOUT SHALL BE DONE USING COMPETENT AND EXPERIENCED PERSONNEL UNDER THE SUPERVISION OF A LAND SURVEYOR REGISTERED IN THE STATE OF MISSOURI. THE CONTRACTOR SHALL PROVIDE ALL LABOR, INSTRUMENTS, STAKES, TEMPLATES, AND OTHER MATERIALS NECESSARY FOR MARKING AND MAINTAINING ALL LINES AND GRADES.
8. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) (CURRENT EDITION).
9. MAXIMUM SLOPES ON ALL HANDICAPPED RAMPS NOT TO EXCEED 12:1
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED GOVERNMENTAL INSPECTIONS.
11. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.
12. TOPOGRAPHIC AND BOUNDARY INFORMATION SHOWN HEREON IS BASED UPON INFORMATION FROM ALTA/ACSM LAND TITLE SURVEY BY FREELAND-KAUFMAN & FREDEEN, INC. DATED APRIL 12, 2006.
13. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IN RIGHT-OF-WAY AND MUST BE STORED WITHIN THE SITE.
14. PROPOSED USE IS A RESTAURANT.
15. TOTAL SITE AREA : 1.28 ACRES. DISTURBED AREA : 1.20 ACRES
16. CONTRACTOR TO NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION.
17. ALL CONSTRUCTION MUST CONFORM TO CITY OF CHESTERFIELD STANDARDS AND SPECIFICATIONS, WHETHER OR NOT REVIEW COMMENTS WERE MADE.
18. ALL LIGHTING SHALL BE IN COMPLIANCE WITH CITY OF CHESTERFIELD LIGHT ORDANCE NUMBER 2228.
19. MOUNTING HEIGHT OF LIGHT FIXTURES SHALL NOT EXCEED 30 FEET.
20. ALL SIGNAGE SHALL BE IN CONFORMANCE WITH SECTION 1003.168(4) OF THE ZONING ORDIANCE AND ANY OTHER SIGN ORDIANCE FOR THE AREA.
21. TREES AND LANDSACPING MAY NOT BE LOCATED WITHIN 5 FEET OF THE RETAINING WALL OF CHESTERFIELD VALLEY MASTER STORMWATER DITCH.

SITE PLAN DESIGN NOTES & KEY PLAN

1	DIRECTIONAL ARROW	1 C-4.0
2	DRIVE-THRU GRAPHICS	2 C-4.0
3	STOP LINE GRAPHIC	3 C-4.0
4	PAINTED HANDICAP PARKING SYMBOL	4 C-4.0
5	CONCRETE SIDEWALK	5 C-4.0
6	CURBED HANDICAP RAMP	6 C-4.0
7	SIDEWALK HANDICAP RAMP	7 C-4.0
7A	HANDICAP RAMP w/ FLARED SIDES	7A C-4.0
8	SIDEWALK WITH CURB & GUTTER	8 C-4.0
9	24" CONCRETE CURB AND GUTTER	
9A	SPILLING SECTION	9 C-4.0
9B	CATCHING SECTION	
10	STANDARD PARKING STALL (9'x20')	10 C-4.0
11	REFUSE ENCLOSURE FOUNDATION	11 C-4.0
12	REFUSE ENCLOSURE ALT. DRAINAGE	12 C-4.0
13	REFUSE ENCLOSURE FOUNDATION (ALT)	13 C-4.0
14	DRIVE THRU PLAN	14 C-4.1
15	DRIVE-THRU ISOMETRIC	15 C-4.1
16	DIRECTIONAL SIGNAGE	16 C-4.1
	ALL SIGNS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE U.S. DEPARTMENT OF TRANSPORTATION.	
16A	STOP SIGN	
16B	HANDICAP SIGN	
16C	DRIVE-THRU DIRECTIONAL SIGN	
16D	"RIGHT TURN ONLY" SIGN	
16E	EXIT ONLY SIGN	
17	LANDSCAPE & IRRIGATION PROTECTOR	17 C-4.1
18	CONCRETE WHEEL STOP	18 C-4.1
19	SERVICE LINE CLEANOUT	19 C-4.1
20	TYPICAL LIGHT POLE BASE	20 C-4.1
21	HANDRAIL ELEVATION (USE ONLY ON SITES WHERE DRIVEWAY IS AGAINST BUILDING)	21 C-4.1
22	TYPICAL ADA RAMP AND HANDRAIL	22 C-4.1
23	PIPE BUMPER POST	23 C-4.1
23A	AUTOMOBILE PARKING BUMPER POST	23A C-4.1
24	TYPICAL PAVEMENT SECTION	24 C-4.2
25	TRANSVERSE & LONGITUDINAL CONTRACTION JOINT	25 C-4.2
26	TRANSVERSE & LONGITUDINAL DOWELED CONST. JOINT	26 C-4.2
27	CONCRETE APRON @ TRASH ENCLOSURE	27 C-4.2
28	CONCRETE PAVING @ DRIVE THRU LANE	28 C-4.2
29	EXPANSION JOINT	29 C-4.2
30	CONTRACTION JOINT	30 C-4.2
31	FLAGPOLE ECX SERIES 45 FOOT FLAG POLE PACKAGE, BY APPROVED VENDORS; THE FLAG COMPANY OR ATLAS FLAGS.	
32	TRANSFORMER	
33	REFUSE/STORAGE BUILDING (SEE ARCHITECT PLANS)	
34	GREASE TRAP	
35	CHICK-FIL-A PRIME SIGN	
36	PRE-SELL MENUBOARD	
37	MENU BOARD & CANOPY ORDERING STATION	
38	CHICK-FIL-A "ENTER" SIGN	
39	CHICK-FIL-A "EXIT" SIGN	

FORWARD COMMENTS TO:
TODD M. ROGERS, P.E.
5665 NEW NORTHSIDE DRIVE, SUITE 400
ATLANTA, GA 30328
(770) 933-0280

AREA SUMMARY: CHICK-FIL-A PARCEL		PROPOSED AREA TABULATION	
EXISTING AREA TABULATION		IMPERVIOUS AREA	
IMPERVIOUS AREA		BUILDING PAD	0.10 ACRES
BUILDING PAD	0.00 ACRES	ASPHALT PAVEMENT & CONCRETE	0.75 ACRES
ASPHALT PAVEMENT & CONCRETE	0.00 ACRES	PERVIOUS AREA	
PERVIOUS AREA		GRASS & LANDSCAPE AREA (GREENSPACE)	0.43 ACRES (33.6%)
GRASS & LANDSCAPE AREA	1.28 ACRES	TOTAL AREA	1.28 ACRES
TOTAL AREA	1.28 ACRES		

PROPOSED USE IS FAST SERVICE RESTAURANT.

PARKING REQUIREMENTS

PARKING RATIO = 1 SPACE PER 2 SEATS
PLUS 2 SPACES PER 3 EMPLOYEES
ON LARGEST SHIFT.
134 SEATS, 12 EMPLOYEES
TOTAL SPACES REQUIRED =75
STANDARD SPACES PROVIDED =51
HANDICAP SPACES PROVIDED = 3
TOTAL SPACES PROVIDED = 54
REMAINDER OF REQUIRED SPACES IS PROVIDED IN SHOPPING CENTER LOT PER CROSS-PARKING EASEMENT.

FOR CONSTRUCTION
FOR CONSTRUCTION ONLY

Chick-fil-A
5200 Buffington Rd.
Atlanta, GA. 30349-2998
contact: Kristen Clever
(404) 684-8660

Revisions:

Mark	Date	By

Seal

PBSJ
5665 New Northside Drive
Suite 400
Atlanta Georgia, 30328
(770) 933-0280
(770) 933-9371 fax

STORE
SERIES S06C-R
17365
CHESTERFIELD
AIRPORT ROAD
CHESTERFIELD,
MISSOURI 63005
ZONING: C-8
PARCEL ID# 17U330189

SHEET TITLE
SITE PLAN

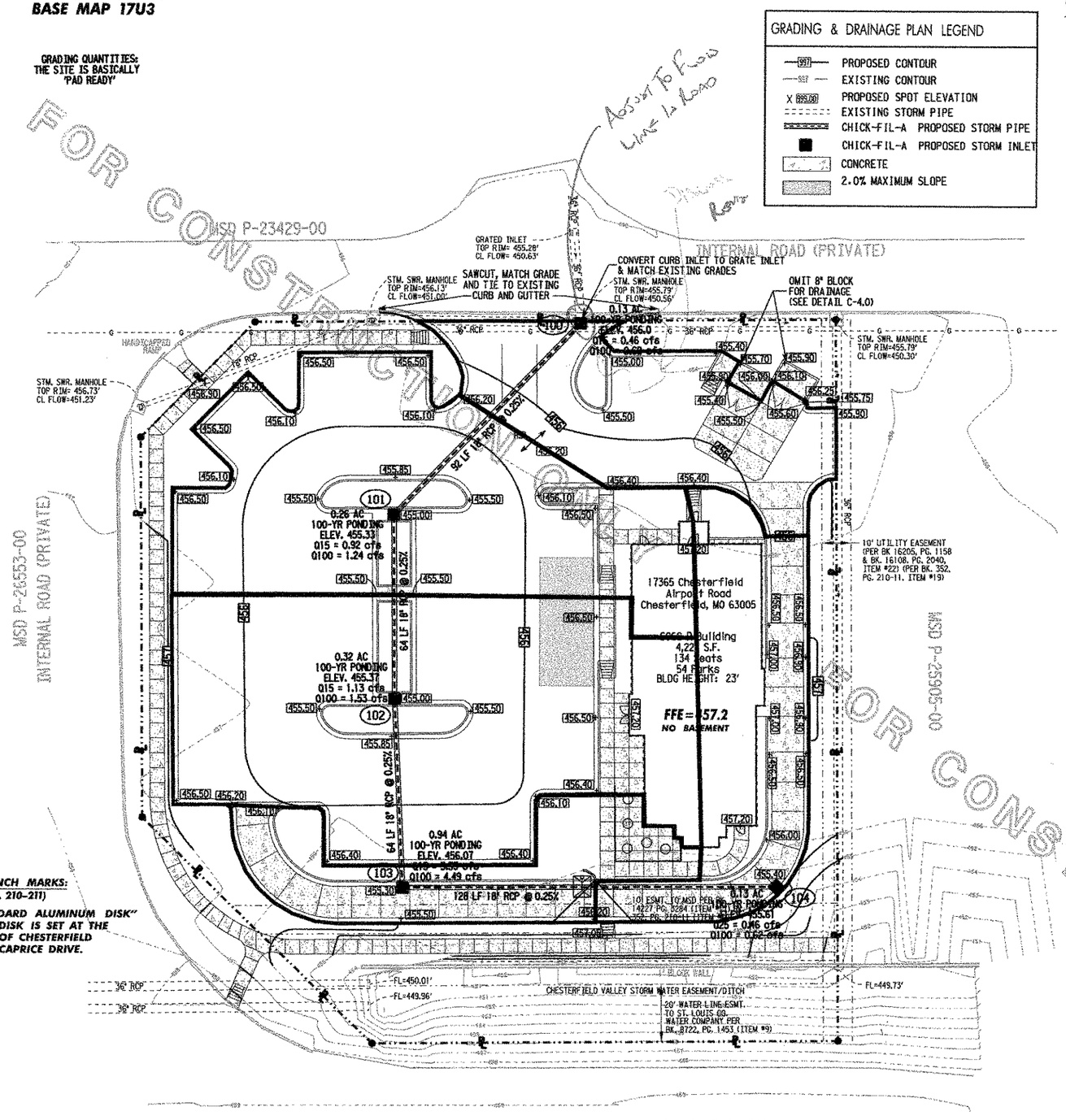
☐Preliminary
☐80% Submittal
☐For Construction

Job No.: 061781.00
Store: 1976
Date: 6-08-06
Drawn By: JDR
Checked By: TMR

Sheet
C-2.0

12-MAR-2007
I:\061781-Chesterfield\Deliverables\site.dgn

MSD P# 27330-00
BASE MAP 17U3



GRADING, DRAINAGE & EROSION CONTROL NOTES:

1. ALL STRUCTURAL FILL AREAS TO BE CONSTRUCTED UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER AND COMPACTED TO AT MINIMUM 95 PERCENT STANDARD PROCTOR DENSITY. (ASTM D698) COMPACT THE TOP 12 INCHES OF SUBGRADE SOILS BENEATH BUILDING AND PAVED AREAS TO 100 PERCENT STANDARD PROCTOR DENSITY. (ASTM D698) PLACE SOIL IN HORIZONTAL LIFTS OF A MAXIMUM OF EIGHT (8) INCH THICK LOOSE LIFTS.
2. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TREES, ROOTS, ORGANICS AND OTHER DEBRIS FROM THE AREA TO BE EXCAVATED, FILLED, OR GRADED, AS APPROVED BY THE CITY OF CHESTERFIELD.
3. TRENCHING BACKFILL SHOULD BE FREE FROM STONES OF SUCH SIZE AS TO INTERFERE WITH COMPACTION AND SHOULD ALSO BE FREE FROM LARGE LUMPS OR OTHER FOREIGN MATTER WHICH WILL NOT READILY BREAK DOWN UNDER COMPACTION. THE OWNER SHALL HAVE THE RIGHT TO REJECT ANY MATERIAL RETAINED ON A THREE(3) INCH SIEVE, OR MATERIAL EXCAVATED IN SUCH A MANNER AS TO PRODUCE LARGE LUMPS NOT EASILY BROKEN DOWN OR WHICH CANNOT BE SPREAD IN LOOSE LAYERS.
4. COMPACT GRADED AGGREGATE BASE TO ONE HUNDRED (100) PERCENT STANDARD PROCTOR DENSITY. (ASTM D1557) UPPER 1 FEET OF FILL SOILS BELOW GRANULAR AGGREGATE BASE TO BE COMPACTED TO 100% STD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698).
5. SITE SHALL BE GRADED TO ASSURE POSITIVE DRAINAGE OF SURFACE WATER AWAY FROM THE BUILDING PAD.
6. ALL EXTERIOR PAVED AREAS ADJACENT TO THE BUILDING (SIDEWALKS, PATIOS, ETC.) SHALL SLOPE AWAY FROM THE BUILDING AT A MINIMUM SLOPE OF 1/4" PER FOOT.
7. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SURFACE AND SUBSURFACE WATER CONTROL MEASURES AS PART OF THE CONTRACT.
8. GRADES NOT OTHERWISE INDICATED ON THE PLANS SHALL BE UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE GIVEN. ABRUPT CHANGES IN SLOPE SHALL BE WELL ROUNDED. ELEVATIONS REPRESENT FINAL GRADES.
9. ALL SILT BARRIERS SHALL BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL THE TREE PROTECTION, SAVE AREAS, SILT BARRIER INSTALLATION AND CONSTRUCTION FACILITIES ARE CONSTRUCTION AND FUNCTIONING.
10. CONTRACTOR IS RESPONSIBLE FOR MONITORING DOWNSTREAM CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD AND CLEARING ANY DEBRIS AND SEDIMENT CAUSED BY CONSTRUCTION.
11. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES AFTER PERMANENT GRASSING ESTABLISHED.
12. SILT BARRIERS TO BE PLACED AS SHOWN AND/OR AS DIRECTED BY PROJECT ENGINEER AND/OR CITY OF CHESTERFIELD INSPECTOR.
13. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED AS REQUIRED BY PROJECT ENGINEER OR CITY OF CHESTERFIELD INSPECTOR.
14. EXISTING TREES SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. CARE SHALL BE TAKEN IN ALL GRADING ACTIVITIES TO REMAIN OUTSIDE THE DRIP LINES OF EXISTING TREES. ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY AND REPLACED OR REPAIRED AS NEEDED.
15. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
16. MAXIMUM 2% GRADE IN ALL HANDICAPPED PARKING AREAS.
17. DISTURBED AREAS LEFT IDLE FOR TWO WEEKS, AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO MULCH (MU) OR TEMPORARY VEGETATION (TS). ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION (SOD) WITHIN TWO WEEKS.
18. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (MU). ON SLOPES THAT ARE 4:1 OR STEEPER, MULCH WILL BE ANCHORED.
19. LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A COUNTY ROAD OR STREET.
20. THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
21. SEDIMENT / EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTANED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF OF THE CAPACITY OF THE DEVICE.
22. CONTRACTOR SHALL STOCKPILE SUFFICIENT TOPSOIL TO PROVIDE A 6" TO 12" LAYER OF TOPSOIL WITHIN FINAL LANDSCAPE AREAS.
23. CONTRACTOR SHALL MEET ALL APPROPRIATE O.S.H.A. CONSTRUCTION REQUIREMENTS.
24. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
25. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SOIL FILL REQUIRED TO ESTABLISH PROPOSED GRADES.
26. LIMITS OF CLEARING AND GRADING ARE BOUNDED BY PROPERTY LINES AND PLACEMENT OF SILT FENCE ON THIS PLAN.
27. STANDARDS AND SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF CHESTERFIELD, CURRENT EDITION
28. ADDITIONAL EROSION CONTROL MEASURES WILL BE IMPLEMENTED IF DEEMED NECESSARY BY ONSITE INSPECTIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL EROSION CONTROL MEASURES.
29. THIS PROPERTY IS IN ZONE "X", OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL 29189C0140 H WHICH HAS AN EFFECTIVE DATE OF AUGUST 2, 1995. ZONE "X", AREAS OF 500-YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOOD.

CITY OF CHESTERFIELD NOTES:

1. NOTIFY THE CITY OF CHESTERFIELD DEPARTMENT OF PUBLIC WORKS 48 HOURS PRIOR TO THE COMMENCEMENT OF GRADING AND/OR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. PARKING ON NON-SURFACED AREAS IS PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVING CONDITIONS.
3. THE STREETS SURROUNDING THIS DEVELOPMENT AND ANY STREET USED FOR CONSTRUCTION ACCESS THERETO SHALL BE KEPT FREE FROM MUD AND CONSTRUCTION DEBRIS AND SHALL BE CLEANED THROUGHOUT THE DAY.
4. ALL FILLS PLACED UNDER PROPOSED STORM AND SANITARY SEWER LINES AND/OR PAVED AREAS, INCLUDING TRENCH BACKFILLS WITHIN AND OFF THE ROAD RIGHT-OF-WAY, SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE "MODIFIED ASSHTO T-180 COMPACTION TEST" (ASTM D-1557) FOR THE ENTIRE DEPTH OF THE FILL. COMPACTED GRANULAR BACKFILL IS REQUIRED IN ALL TRENCH EXCAVATION WITH THE STREET RIGHT-OF-WAY AND UNDER ALL PAVED AREAS. ALL TESTS SHALL BE PERFORMED UNDER THE DIRECTION OF AND VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS.
5. SOFT SOILS FROM THE BOTTOM AND BANKS OF ANY EXISTING OR FORMER POND SITE OR TRIBUTARIES, OR ANY SEDIMENT BASINS OR TRAPS SHALL NOT BE PLACED IN PROPOSED PUBLIC RIGHT-OF-WAY LOCATIONS OR IN ANY STORM SEWER LOCATION.
6. ALL TRASH AND DEBRIS ON-SITE, EITHER EXISTING OR FROM CONSTRUCTION, MUST BE REMOVED AND PROPERLY DISPOSED OF OFF-SITE.
7. DEBRIS AND FOUNDATION MATERIAL FORM ANY EXISTING ON-SITE BUILDING OR STRUCTURE WHICH IS SCHEDULED TO BE RAZED FOR THIS DEVELOPMENT MUST BE PROPERLY DISPOSED OF OFF-SITE.
8. ANY WELLS, CISTERNS AND/OR SPRINGS, WHICH MAY EXIST ON THIS PROPERTY, SHOULD BE LOCATED AND SEALED IN A MANNER ACCEPTABLE TO THE CITY OF CHESTERFIELD AND THE MoDNR.
9. ALL EXCAVATIONS, GRADING OR FILLING SHALL HAVE A FINISHED GRADE NOT TO EXCEED A 3:1 SLOPE (33%) UNLESS SPECIFICALLY APPROVED OTHERWISE.
10. NO EXCAVATION SHALL BE MADE SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PROPERTY OF ANY PUBLIC OR PRIVATE STREET WITHOUT SUPPORTING AND PROTECTING SUCH PUBLIC OR PRIVATE STREET OR PROPERTY FROM SETTLING, CRACKING OR OTHER DAMAGE.
11. ALL LOTS SHALL BE SEEDED AND MULCHED OR SODDED BEFORE AN OCCUPANCY PERMIT SHALL BE ISSUED EXPECT THAT A TEMPORARY OCCUPANCY PERMIT MAY BE ISSUED BY THE CITY OF CHESTERFIELD PLANNING DEPARTMENT IN CASES OF UNDUE HARDSHIP BECAUSE OF UNFAVORABLE GROUND CONDITIONS. IF THE LOT IS TO BE SEEDED AND MULCHED IT SHALL BE DONE SO IN A MANNER THAT IT MEETS OR EXCEEDS THE REQUIREMENTS OF THE CITY OF CHESTERFIELD'S "SEDIMENT & EROSION CONTROL GUIDELINES."

20' 10' 0 20' 40'
SCALE: 1"=20'

Chick-fil-A
5200 Buffington Rd.
Atlanta, GA. 30349-2998
contact: Kristen Clever
(404) 684-8660

Revisions:

Mark	Date	By
△		
△		
△		

Seal

PBSJ
5665 New Northside Drive
Suite 400 30328
Atlanta, Georgia.
(770) 933-0280
(770) 933-0911 Fax

STORE
SERIES SO6C-R
17365
CHESTERFIELD
AIRPORT ROAD
CHESTERFIELD,
MISSOURI 63005
ZONING: C-8
PARCEL ID# 17U330189

SHEET TITLE
GRADING AND DRAINAGE PLAN

☐Preliminary
☐80% Submittal
☐For Construction

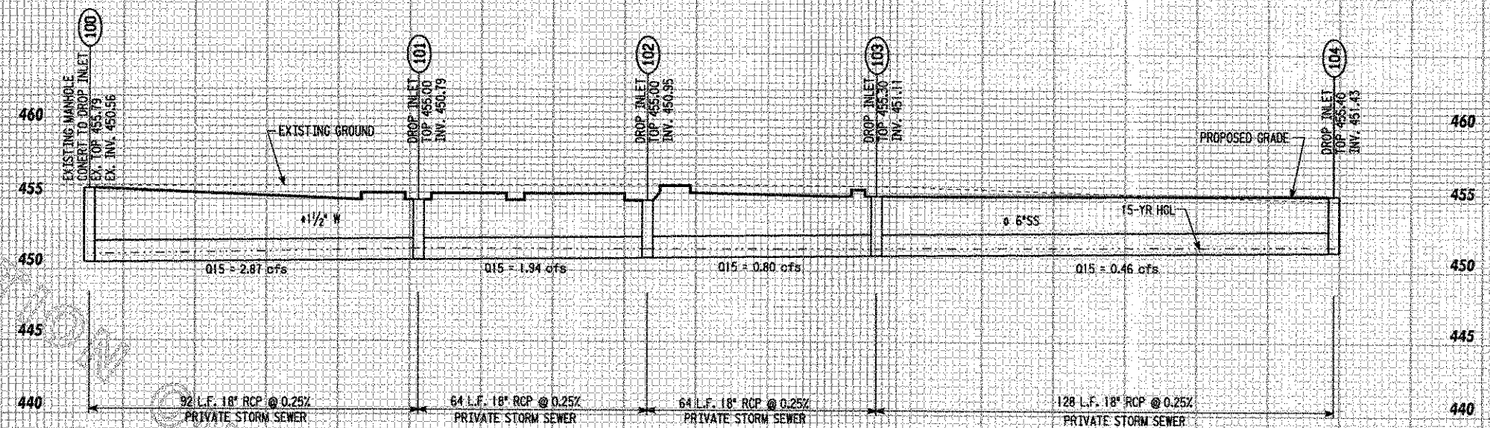
Job No.: 061781.00
Store: 1976
Date: 6-08-06
Drawn By: JDR
Checked By: TMR

Sheet
C-3.0

FOR CONSTRUCTION ONLY

12-MAR-2007
I:\projects\Chesterfield\drawings\GRADING.dgn

MSD P# 27330-00
BASE MAP 17U3



FOR CONSTRUCTION ONLY

100-YR, 20-MIN STORM

Upstream Node	Downstream Node	Upstream Inlet Area (acres)	Upstream Inlet Coefficient	Upstream Inlet CA (acres)	System Intensity (in/hr)	Total Flow (cfs)	Full Capacity (cfs)	System Flow Time (min)	Length (ft)	Constructed Slope (ft/ft)	Section Size	Mannings n	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	Hydraulic Grade Line In (ft)	Hydraulic Grade Line Out (ft)
104	103	0.13	0.77	0.10	6.20	0.63	5.25	5.00	128.00	0.002500	18 inch	0.013	451.43	451.11	451.85	451.81
103	102	0.09	0.77	0.07	6.20	1.06	5.25	6.07	64.00	0.002500	18 inch	0.013	451.11	450.95	451.81	451.79
102	101	0.32	0.77	0.25	6.20	2.62	5.26	6.52	64.00	0.002500	18 inch	0.013	450.95	450.79	451.79	451.72
101	100	0.26	0.77	0.20	6.20	3.57	5.25	6.88	92.00	0.002500	18 inch	0.013	450.79	450.56	451.72	451.31
100	Existing	0.13	0.77	0.10	6.20	4.49	62.09	7.35	30.00	0.006667	36 inch	0.013	450.56	450.30	451.22	450.65

15-YR, 20-MIN STORM

Upstream Node	Downstream Node	Upstream Inlet Area (acres)	Upstream Inlet Coefficient	Upstream Inlet CA (acres)	System Intensity (in/hr)	Total Flow (cfs)	Full Capacity (cfs)	System Flow Time (min)	Length (ft)	Constructed Slope (ft/ft)	Section Size	Mannings n	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	Hydraulic Grade Line In (ft)	Hydraulic Grade Line Out (ft)
104	103	0.13	0.77	0.10	4.60	0.46	5.25	5.00	128.00	0.002500	18 inch	0.013	451.43	451.11	451.74	451.68
103	102	0.09	0.77	0.07	4.60	0.80	5.25	6.16	64.00	0.002500	18 inch	0.013	451.11	450.95	451.68	451.64
102	101	0.32	0.77	0.25	4.60	1.94	5.25	6.88	64.00	0.002500	18 inch	0.013	450.95	450.79	451.64	451.57
101	100	0.26	0.77	0.20	4.60	2.87	5.25	7.05	92.00	0.002500	18 inch	0.013	450.79	450.56	451.57	451.20
100	Existing	0.13	0.77	0.10	4.60	3.33	62.09	7.55	30.00	0.006667	36 inch	0.013	450.56	450.30	451.13	450.78

SCALE: 1"=20' HORIZONTAL
1"=5' VERTICAL

NOTE:
ALL PIPE LENGTHS ARE HORIZONTAL DISTANCE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. CONTRACTOR TO ESTABLISH THE LENGTH OF PIPE REQUIRED TO DEVELOP THE SYSTEM.

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5200 Buffington Rd.
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Revisions:

Mark	Date	By
△		

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△		

Mark	Date	By
△		

Seal

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5665 New Northside Drive
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STORE
SERIES S06C-R
17365
CHESTERFIELD
AIRPORT ROAD
CHESTERFIELD,
MISSOURI 63005
ZONING: C-8
PARCEL ID# 17U330189

SHEET TITLE
STORM SEWER PROFILES

☐Preliminary
☐80% Submittal
☐For Construction

Job No.: 061781.00
Store: 1976
Date: 6-08-06
Drawn By: JDR
Checked By: TMR

Sheet
C-3.2

12-MAR-2007
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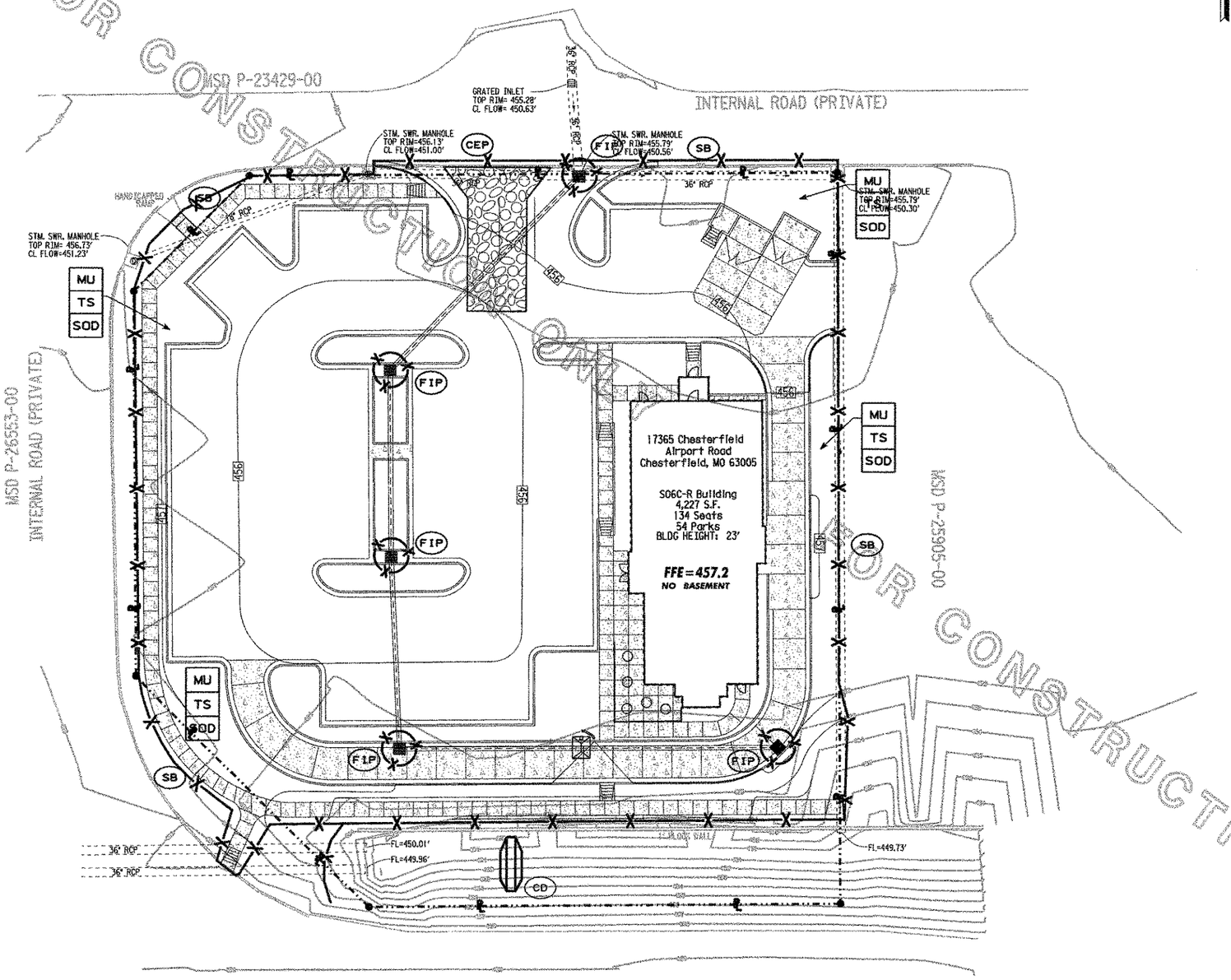
MSD P# 27330-00
BASE MAP 17U3

SURPLUS EROSION AND SILTATION CONTROL DEVICES FOR EMERGENCY REPAIRS SHALL BE KEPT ON SITE.



N

EROSION CONTROL PRACTICES

CODE	PRACTICE	DETAIL	DESCRIPTION
MU	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Establishing temporary protection for disturbed areas where seedings may not have a suitable growing season to produce an erosion retarding cover
TS	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
SOD	DISTURBED AREA STABILIZATION (WITH SODDING)		Establishing permanent vegetative cover using sods.

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
CD	CHECK DAM ROCK OR HAYBALE			A small temporary barrier constructed across a swale, drainage ditch, or area of concentrated flow. Rock or Haybale
CEP	CONSTRUCTION EXIT			A graveled access road located at the construction exit to provide a place for removing mud from tires thereby protecting public streets.
CS	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream or ditch.
DV	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
TSD	TEMPORARY DOWNDRAIN STRUCTURE			A temporary pipe structure to convey storm water down the face of cut or fill slopes.
ECB	EROSION CONTROL MATTING BLANKETS		ECB	The installation of a protective covering (biodegradable or soil stabilization net on a prepared planting area to protect slopes, channels, and banks.
SB	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site by filtering out sediment from sediment laden water. This barrier is generally temporary in nature.
FIP	SEDIMENT TRAP, TEMPORARY			An impounding area created by excavating or around a storm drain inlet. The excavated area is then filled and stabilized on completion of construction
SBN	SEDIMENT BASIN DETAIL			A basin created by excavation or a dam across a waterway. The surface water runoff is impounded allowing the sediment to settle out before it flows out. The basin may be used as a temporary BMP or designed as a permanent pond or stormwater retention device.
OP	STORM DRAIN OUTLET PROTECTION			Placed at storm drainage outlet pipes where a change in flow velocity occurs thereby preventing erosion from the concentrated flows.

SEEDS FOR GRASSED AREAS USE THE FOLLOWING MIXTURES.

MULCHING	MU	PERMANENT	SOD
RATE= 2½ T/AC.		SOD	
TEMPORARY	TS	1ST YR FERTILIZER	1500 LB./AC. 6-12-12
SEED WITH RYEGRASS 3.5 LB. / 1000 SQ. FT.		LIME	4000 LB./ACRE

NOTES:

1. ***FOR EROSION CONTROL DETAILS SEE DRAWING NO. C-5.0***
2. ***FOR EROSION CONTROL NOTES SEE DRAWING NO. C-3.0***
3. ***CONTRACTOR TO KEEP COPY OF NPDES DOCUMENTS ONSITE AT ALL TIMES.***

ANTICIPATED ACTIVITY SCHEDULE

	ACTIVITY	MONTH 1	MONTH 2	MONTH 3	MONTH 4
1	INSTALL SEDIMENT CONTROLS				
2	CLEARING AND GRADING				
3	STORM DRAIN INSTALLATION				
4	GRASS PERMANENT				
5	UTILITY INSTALLATION				
6	MAINTAIN EROSION CONTROL				
7	BLDG. CONSTR. AND PAVING				
8	FINAL LANDSCAPING				
9	CLEANUP				

"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES & PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES."

20' 10' 0 20' 40'
SCALE: 1"=20'

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SHEET TITLE
EROSION CONTROL PLAN

☐Preliminary
☐80% Submittal
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Job No.: 061781.00
Store: 1976
Date: 6-08-06
Drawn By: JDR
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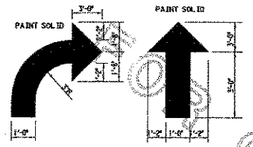
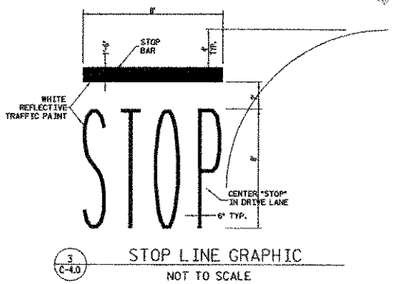


1 C-4.0 DIRECTIONAL ARROW
NOT TO SCALE

2 C-4.0 DRIVE-THRU GRAPHICS
NOT TO SCALE



3 C-4.0 STOP LINE GRAPHIC
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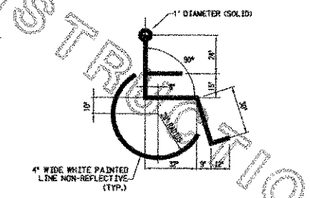
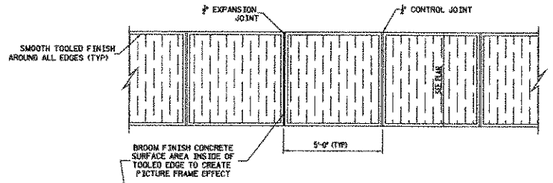
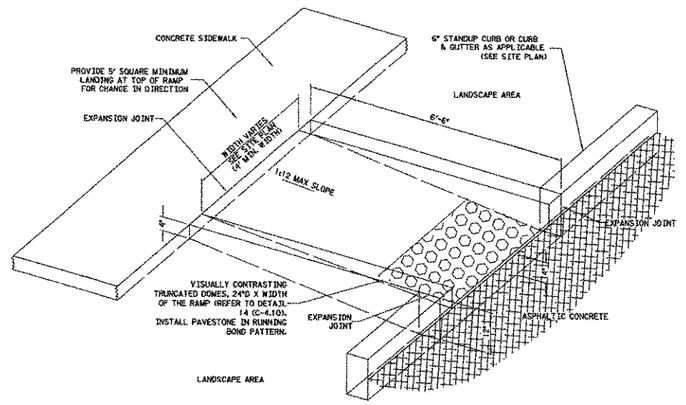


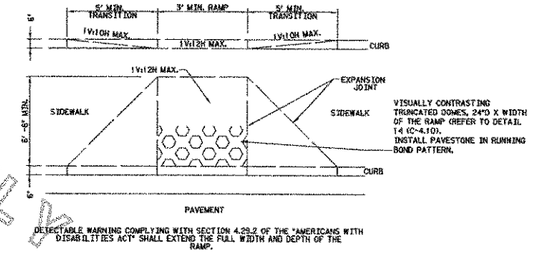
4 C-4.0 PAINTED HANDICAP SYMBOL
NOT TO SCALE



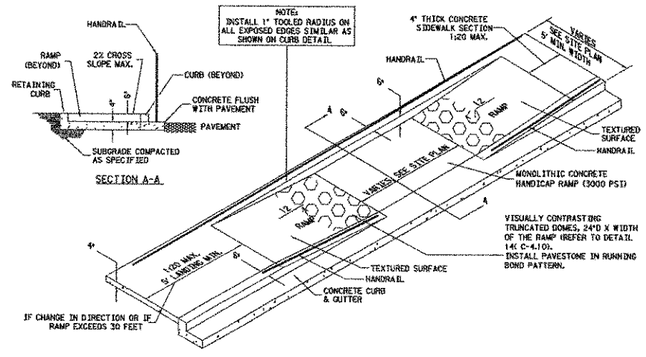
5 C-4.0 TYPICAL CONCRETE SIDEWALK
NOT TO SCALE



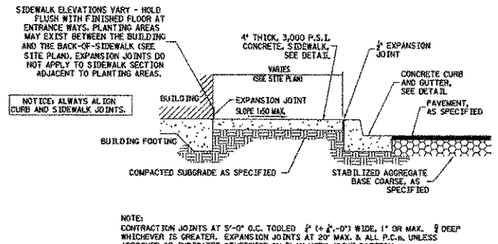
6 C-4.0 RETURNED CURB HANDICAP RAMP
NOT TO SCALE



7A C-4.0 HANDICAP RAMP w/ FLARED SIDES
NOT TO SCALE

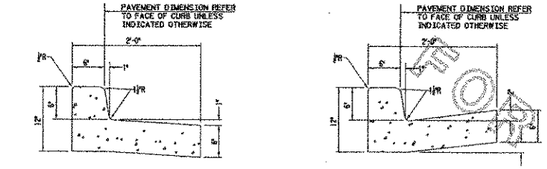


1 C-4.0 SIDEWALK HANDICAP RAMP DETAIL
NOT TO SCALE



NOTE:
CONTRACTION JOINTS AT 5'-0" O.C. TOOLED ½" (± ⅛"-0") WIDE, 1" OR MAX. ¼ DEEP WHICHEVER IS GREATER. EXPANSION JOINTS AT 20' MAX. & ALL P.C.A. UNLESS APPROVED OR INDICATED OTHERWISE ON PLAN VIEW JOINT PATTERN.

8 C-4.0 SIDEWALK WITH CURB & GUTTER SECTION
NOT TO SCALE



A SPILLING CURB AND GUTTER

B CATCHING CURB AND GUTTER

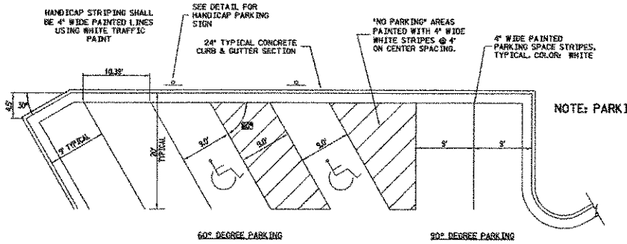
CONCRETE FOR CURBING SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS.

CONSTRUCTION STAKING FOR CURBING INSTALLATION SHALL BE REFERENCED (CUT OR FILL) TO THE FACE OF CURB

AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT THE EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE.

CONTRACTION JOINTS AT 10'-0" O.C. TOOLED 1/4" (±1/16"-0) WIDE, 1" OR MAX. D/4 DEEP WHICHEVER IS GREATER. EXPANSION JOINTS AT 40' MAX. AND ALL P.C.A. UNLESS APPROVED OR INDICATED OTHERWISE ON PLAN VIEW JOINT PATTERN.

9 C-4.0 24" CONCRETE CURB & GUTTER
NOT TO SCALE



NOTE: PARKING WIDTHS VARY, REFER TO SITE PLAN

60° DEGREE PARKING

90° DEGREE PARKING

NOTE:
HANDICAP PARKING AND ACCESSIBLE AISLES SHALL NOT EXCEED 1:50 IN SLOPE IN ANY DIRECTION. IF ONLY ONE ACCESS ISLE IS INSTALLED, IT IS TO BE A VAN SIZE.

NOTE:
PARKING STALL DIMENSIONING SHALL BE IN ACCORDANCE WITH APPLICABLE GOVERNING AUTHORITY'S STANDARDS FOR THE DIMENSIONING SHOWN ON THE SITE LAYOUT PLAN.

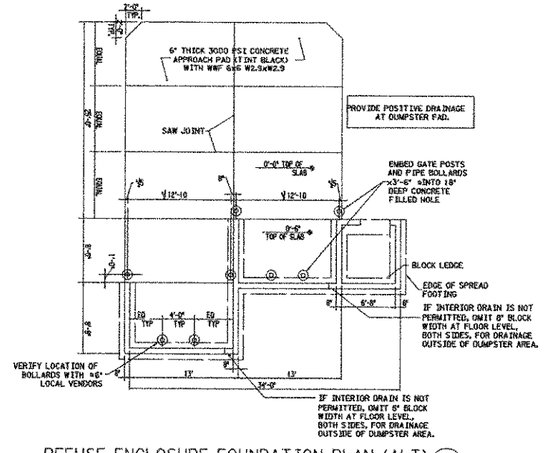
TRAFFIC MARKING PAINT

1. SURFACE PREPARATION: SURFACE MUST BE CLEAN, DRY, AND IN SOUND CONDITION. REMOVE ALL OIL, DUST, GREASE, DIRT, AND OTHER FOREIGN MATERIAL TO ENSURE ADEQUATE ADHESION.

2. RECOMMENDED SPREADING RATE PER COAT: APPROXIMATELY 320 LINEAL FEET OF STANDARD 4" STRIPE PER GALLON.

WET MILS: 15.0
DRY MILS: 9.0
COVERAGE: 100 SQ. FT./GAL APPROXIMATE

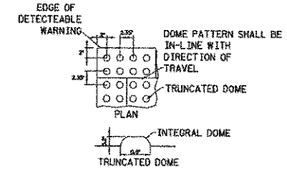
10 C-4.0 STANDARD PARKING STALL
NOT TO SCALE



REFUSE ENCLOSURE FOUNDATION PLAN (ALT) 13 C-4.0
NOT TO SCALE

NOTES

1. CURB RAMP RUNNING SLOPES SHALL NOT BE STEEPER THAN 1:12 AND CROSS SLOPE SHALL BE 2% OR FLATTER.
2. DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED BY TEXTURING PRODUCTS CONFORMING TO A.D.A. ACCESSIBILITY GUIDELINES, SECTION 4.29.2. TRANSITION SLOPES ARE NOT TO HAVE DETECTABLE WARNINGS. CONTRACTOR SHALL CONFIRM LOCAL CODES ARE MET.
3. WHERE A CURB RAMP IS CONSTRUCTED WITHIN AN EXISTING CURB, CURB & GUTTER AND/OR SIDEWALK, THE EXISTING CURB & GUTTER SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE CURB TRANSITIONS OR TO THE EXTENT THAT NO REMAINING SECTION OF CURB OR CURB & GUTTER IS LESS THAN 5' LONG. THE EXISTING SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE TRANSITION SLOPE WALK AROUND OR TO THE EXTENT THAT NO REMAINING SECTION OF SIDEWALK IS LESS THAN 5'.
4. WHERE ADJACENT WALKING SURFACES ARE COLORED OR ARE CONSTRUCTED WITH MATERIALS OTHER THAN STANDARD CLASS 1 PORTLAND CEMENT CONCRETE IN ACCORDANCE WITH SECTION 522 OF THE SPECIFICATIONS, THE PLAN MUST PROVIDE FOR DETECTABLE WARNING SURFACE COLORS OR MATERIALS THAT PROVIDE THE NECESSARY CONTRAST, EITHER DARK-ON-LIGHT, OR LIGHT-ON-DARK.
5. PREFERRED MANUFACTURER: PAVESTONE COMPANY DETECTABLE WARNING PAVER, RAY CLARK (678)471-1019; ALTERNATIVE MANUFACTURER: ENGINEERED PLASTICS, INC. (ARMOR TILE) OLYMPIC TOWERS, 300 PEARL STREET, SUITE 200, BUFFALO, NY 14202. PHONE (800)882-2525.
6. TRUNCATED DOMES TO BE INSTALLED USING PREFORMED PAVERS OR TOPMARK PREFORMED THERMOPLASTIC WARNING MATERIAL . CONTRACTOR TO VERIFY HANDICAP RAMPS MEET LOCAL CODES.



14 C-4.0 TRUNCATED DOME
NOT TO SCALE

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Revisions:

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SHEET TITLE
CHICK-FIL-A SITE DETAILS

☐Preliminary
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12-MAR-2007
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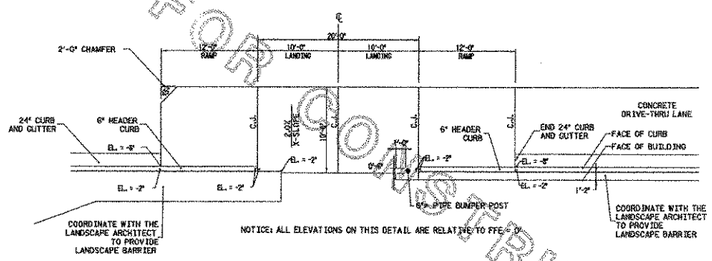
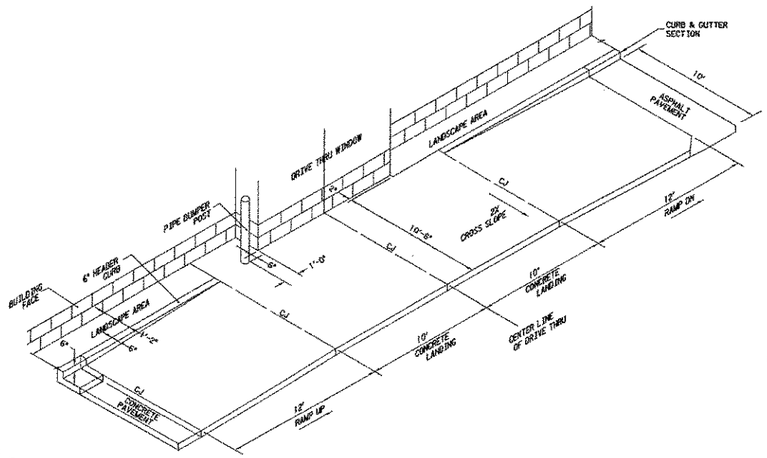
MSD P# 27330-00
BASE MAP 17U3

FOR CONSTRUCTION ONLY



14 C-4.1 DRIVE-THRU PLAN
NOT TO SCALE



15 C-4.1 DRIVE-THRU ISOMETRIC
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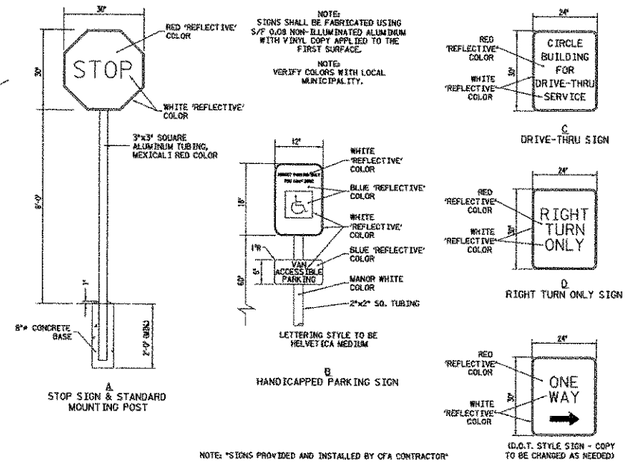
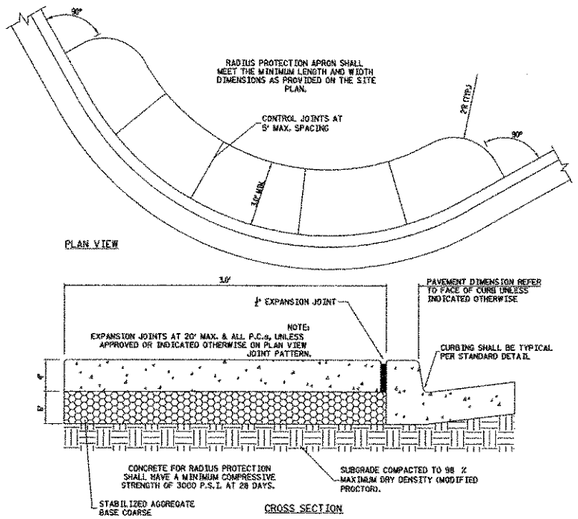
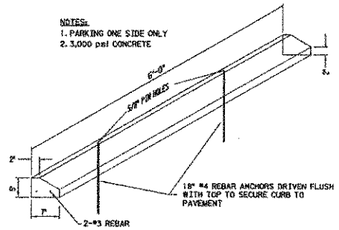


A STOP SIGN & STANDARD MOUNTING POST
B HANDICAPPED PARKING SIGN
C DRIVE-THRU SIGN
D RIGHT TURN ONLY SIGN
E ONE WAY SIGN
NOTE: "SIGNS PROVIDED AND INSTALLED BY CFA CONTRACTOR"

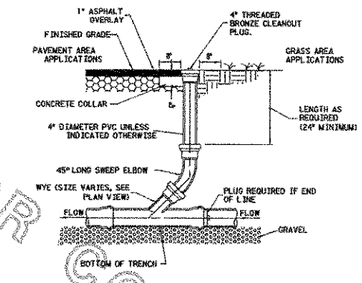
16 C-4.1 DIRECTIONAL SIGNAGE
NOT TO SCALE



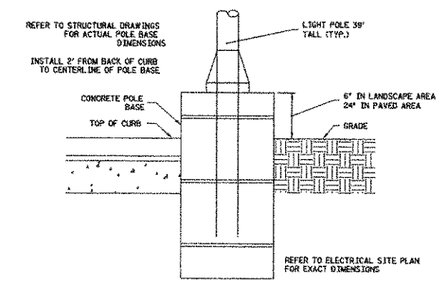
17 C-4.1 LANDSCAPE & IRRIGATION PROTECTOR
NOT TO SCALE



18 C-4.1 CONCRETE WHEEL STOP
NOT TO SCALE



19 C-4.1 SERVICE LINE CLEANOUT
NOT TO SCALE



20 C-4.1 TYPICAL POLE BASE
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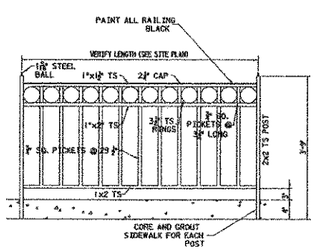
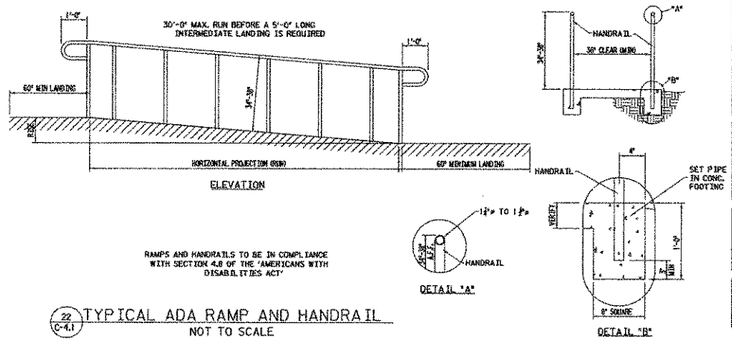


21 C-4.1 HANDRAIL ELEVATION
NOT TO SCALE



22 C-4.1 TYPICAL ADA RAMP AND HANDRAIL
NOT TO SCALE

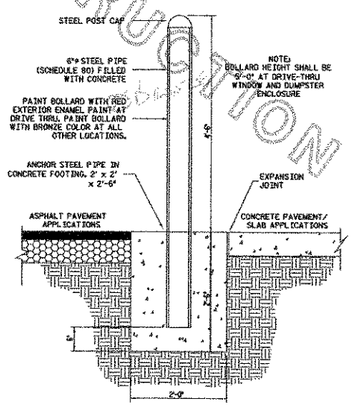
MAX. RISE/RUN FOR ACCESSIBLE RAMPS		
SLOPE	MAXIMUM RISE	MAXIMUM HORIZONTAL PROJECTION
1:12 TO < 1:16	30 INCHES	30 FEET
1:16 TO < 1:20	30 INCHES	40 FEET

RAMPS SECTION 4.8.1 - 4.8.3
- *ANY PART OF AN ACCESSIBLE ROUTE WITH A SLOPE GREATER THAN 1:20 SHALL BE CONSIDERED A RAMP AND SHALL COMPLY WITH 4.8*
- *THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP.*
- *THE MINIMUM CLEAR WIDTH OF A RAMP SHALL BE 36".*
- *SEE MAXIMUM RISE/RUN CHART FOR ACCEPTABLE SLOPES.

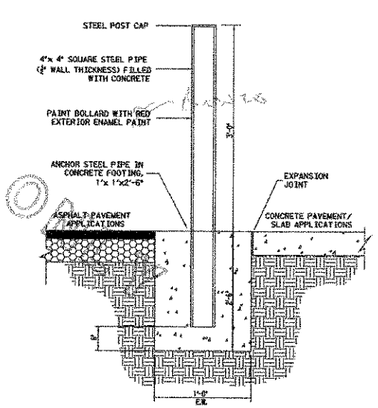
LANDINGS SECTION 4.8.4
- *LEVEL LANDINGS WILL BE PROVIDED AT TOP AND BOTTOM OF EACH RAMP. LANDING LENGTH SHALL BE MIN. 60" AND BE AS WIDE AS RAMP MIN. 36".*
- *IF RAMP CHANGES DIRECTION LANDING WILL BE MIN. 60"x60"*
- *IF A DOORWAY IS LOCATED AT A LANDING, THEN THE AREA IN FRONT OF THE DOORWAY SHALL COMPLY WITH 4.13.6*

HANDRAILS SECTION 4.8.5 AND 4.26
- *IF A RAMP HAS A RISE GREATER THAN 6" OR A HORIZONTAL PROJECTION GREATER THAN 72", THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES*
- *HANDRAIL WILL BE CONSTRUCTED OF WELDED STEEL PIPE - GRIND SMOOTH AND PAINT TO MATCH DARK BRONZE.

CROSS SLOPE SECTION 4.8.6, 4.3.7
- *THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1:50.*
- *NOWHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:50.*



23 C-4.1 PIPE BUMPER POST
NOT TO SCALE



23A C-4.1 AUTOMOBILE PARKING BUMPER POST
NOT TO SCALE

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Chick-fil-A
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Atlanta, GA. 30349-2998
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STORE
SERIES S06C-R
17365
CHESTERFIELD
AIRPORT ROAD
CHESTERFIELD,
MISSOURI 63005
ZONING: C-8
PARCEL ID# 17U330189

SHEET TITLE
CHICK-FIL-A SITE DETAILS

☐Preliminary
☐80% Submittal
☐For Construction

Job No.: 061781.00
Store: 1976
Date: 6-08-06
Drawn By: JDR
Checked By: TMR

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C-4.1

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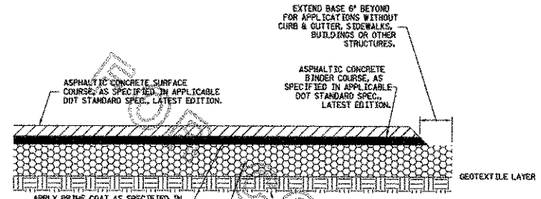
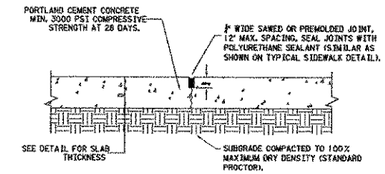
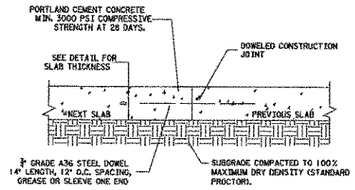
MSD P# 27330-00
BASE MAP 17U3



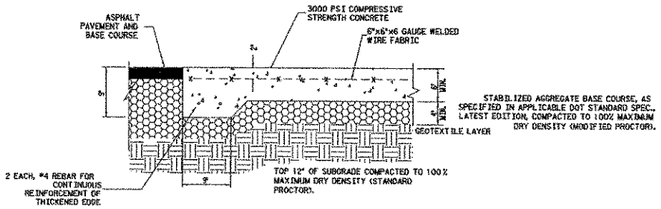
24 C-4.2 TYPICAL PAVEMENT SECTION
NOT TO SCALE



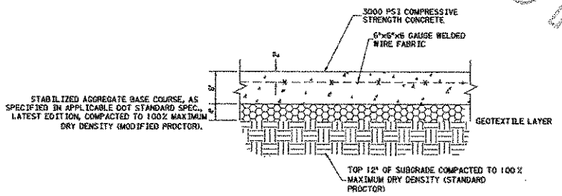
25 C-4.2 TRANSVERSE AND LONGITUDINAL CONTRACTION JOINT
NOT TO SCALE



26 C-4.2 TRANSVERSE AND LONGITUDINAL DOWELED CONSTRUCTION JOINT
NOT TO SCALE



27 C-4.2 CONCRETE APRON @ TRASH ENCLOSURE
NOT TO SCALE



28 C-4.2 CONCRETE PAVING DRIVE-THRU LANE
NOT TO SCALE

MATERIAL	MINIMUM ASPHALTIC PAVEMENT SECTION THICKNESS (INCHES)		MISSOURI DOT STANDARD SPECIFICATIONS
	PARKING STALLS	DRIVES	
ASPHALTIC CONCRETE SUFACE COURSE	1	1	SECTION 403
ASPHALTIC CONCRETE BINDER COURSE	2	2	SECTION 403
AGGREGATE BASE COURSE	6 - 9	6 - 9	SECTION 304, TYPE 1
GEOTEXTILE	CONTINUOUS	CONTINUOUS	SECTION 1011 & 1011.3.4

* Observe Minimum Sizes

NOTE: CONTRACTOR TO CROSS REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT DESIGNS.
IN THE EVENT OF DISCREPANCIES, THE GEOTECHNICAL REPORT WILL OVERRULE THESE DETAILS.

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CHICK-FIL-A SITE DETAILS

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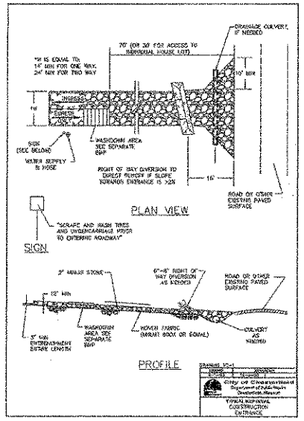
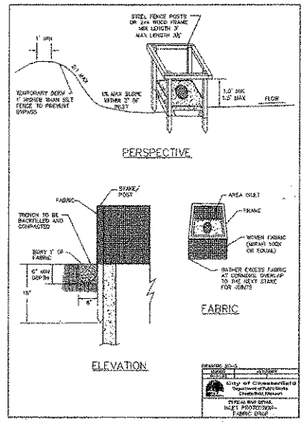
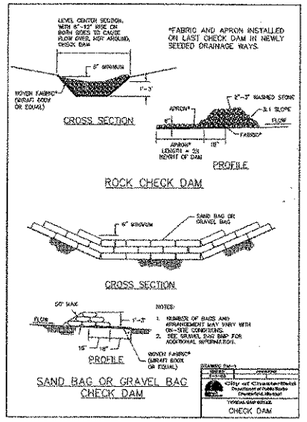
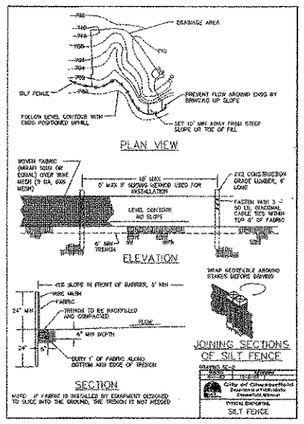
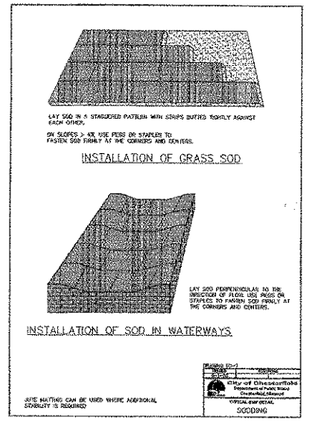
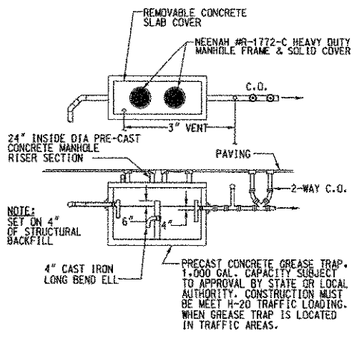




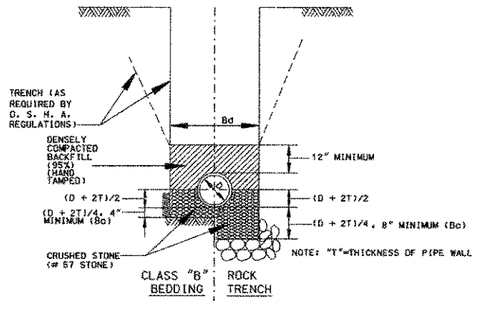








TYPICAL GREASE INTERCEPTOR
NOT TO SCALE



BEDDING DIMENSIONS												
NOMINAL PIPE DIAMETER (IN)	DIP		RCP & PCCP		PVC		HDPE			FRP		
	MIN. Bc (IN)	Bd (FT)	MIN. Bc (IN)	Bd (FT)	MIN. Bc (IN)	Bd (FT)	MIN. Bc (IN)	Bd (FT)		MIN. Bc (IN)	Bd (FT)	
6	*4.00	2.25			*4.00	2.25						
8	*4.00	2.25			*4.00	2.25						
10	*4.00	2.25			*4.00	2.25						
12	*4.00	2.50			*4.00	2.50						
15	*4.17	2.75			*5.00	2.50						
18	4.69	3.00	*5.75	3.50	**6.00	3.00	**6.00	3.00		**6.00	3.00	
24	*5.21	3.50	*7.50	4.00	**8.00	3.50	**8.00	3.50		**8.00	3.50	
30	*7.72	4.00	9.25	4.50			**8.00	4.00		**8.00	4.00	
36	9.24	5.50	11.00	5.58			**10.00	5.00		**10.00	5.00	

* Bc=8" WHERE IN ROCK TRENCH
** Bc=12" WHERE IN ROCK TRENCH

SANITARY SEWER BEDDING DETAILS FOR PVC & DIP – TYPICAL TRENCH SECTION

SCALE: NTS

NOTE: FULL DEPTH GRANULAR FILL OF SEWERS IS REQUIRED UNDER ALL ADJACENT PAVED AREAS INCLUDING SIDEWALKS.

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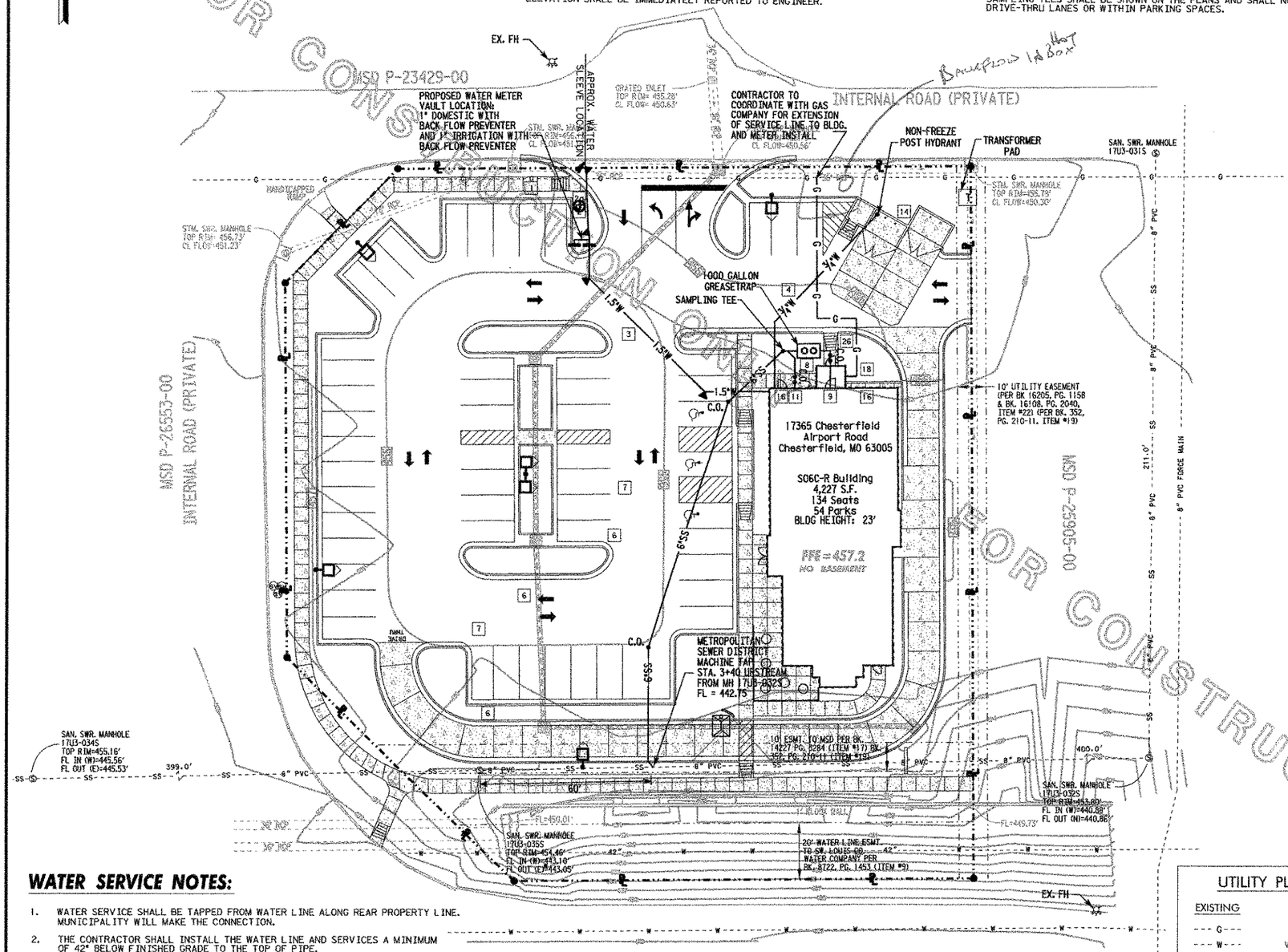
MSD P# 27330-00
BASE MAP 17U3

48 HOURS BEFORE YOU DIG CALL MISS DIG (800) 344-7483 (TOLL FREE)
PRIOR TO CONSTRUCTION FOR UNDERGROUND UTILITY LOCATION

N

SANITARY SEWER SERVICE NOTES:

1. PVC SEWER PIPE SHALL CONFORM TO ASTM D-3034, SDR 35, AND BE INSTALLED IN ACCORDANCE WITH ASTM D-2321.
2. PVC PIPE SHALL BE JOINTED WITH A RUBBER GASKET AND SHALL CONFORM TO ASTM F477. PVC PIPE SHALL NOT BE JOINED BY A SOLVENT CEMENT JOINT.
3. WHERE THERE IS A CHANGE IN THE TYPE OF PIPE USED, THE CONTRACTOR SHALL USE FERNCO ADAPTERS OR EQUAL.
4. METROPOLITAN SEWER DISTRICT IS RESPONSIBLE FOR THE SANITARY SEWER TAP.
5. CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT OF SANITARY SEWER FOR CONNECTION TO EXISTING WASTEWATER SYSTEMS. ANY DISCREPENCY IN DESIGN ELEVATION SHALL BE IMMEDIATELY REPORTED TO ENGINEER.
6. ALL SEWER PIPES SHALL HAVE BEDDING PER METROPOLITAN ST. LOUIS SEWER DISTRICT STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2000.
7. ALL WORK TO BE PERFORMED ACCORDING TO ST. LOUIS METROPOLITAN SEWER DISTRICT STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWER AND DRAINAGE FACILITIES, 2000. ACTUAL FIELD CONDITIONS MAY REQUIRE MORE STRINGENT REQUIREMENTS THAN THOSE NOTED ABOVE IF DEEMED NECESSARY BY INSPECTOR.
8. EXTERNAL GREASE TRAP REQUIRED. GREASE TRAP TO BE LOCATED IN AN ACCESSIBLE LOCATION FOR MSD INSPECTION. GREASE TRAP TO PROVIDE MEANS FOR VISUAL INSPECTION FROM ABOVE FOR BOTH THE INFLUENT AND EFFLUENT SIDES. MSD SAMPLING TEE TO BE LOCATED ON PRIVATE LATERAL IN AN ACCESSIBLE LOCATION FOR MSD SAMPLING. SAMPLING TEE SHALL BE LOCATED DOWNSTREAM OF GREASE TRAP AND ALL OTHER COMMERCIAL SANITARY LATERALS TO FACILITATE MSD SAMPLING. GREASE TRAPS AND SAMPLING TEES SHALL BE SHOWN ON THE PLANS AND SHALL NOT BE LOCATED IN DRIVE-THRU LANES OR WITHIN PARKING SPACES.



WATER SERVICE NOTES:

1. WATER SERVICE SHALL BE TAPPED FROM WATER LINE ALONG REAR PROPERTY LINE. MUNICIPALITY WILL MAKE THE CONNECTION.
2. THE CONTRACTOR SHALL INSTALL THE WATER LINE AND SERVICES A MINIMUM OF 42" BELOW FINISHED GRADE TO THE TOP OF PIPE.
3. ALL CONSTRUCTION TO CONFORM TO APPLICABLE ST. LOUIS COUNTY WATER COMPANY SPECIFICATIONS AND IN ACCORDANCE WITH ST. LOUIS COUNTY WATER COMPANY ORDINANCES.
4. ALL WATER AND SEWER LINES SHOULD TERMINATE FIVE FEET FROM THE FACE OF THE BUILDING. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS.
5. ALL TEES, CAPS, PLUGS, BENDS, FIRE HYDRANTS, VALVES, ETC., TO BE CONSTRUCTED WITH THRUST BLOCKS.
6. ALL WATER LINES SHALL BE DISINFECTED AND TESTED IN ACCORDANCE WITH AWWA STANDARD C-601. THE CONTRACTOR SHALL PROVIDE, AT HIS OWN EXPENSE, ALL NECESSARY TESTING EQUIPMENT, PRESSURE GAUGES, WATER METERS, WATER, MATERIALS AND FACILITIES REQUIRED FOR PRESSURE AND LEAKAGE TESTING.
7. WATER LINE TRENCHES MAY BE BACKFILLED WITH EXCAVATED EARTH, WHICH IS FREE OF ORGANIC MATERIAL AND STONE TWO INCHES AND LARGER REMOVED. PLACE SOIL BACKFILL IN SIX INCH LAYERS AND COMPACT TO 95 PERCENT STANDARD PROCTOR DENSITY, ASTM D698. TOP ONE FEET OF TRENCH BACKFILL IN ROADWAY TO BE COMPACTED TO 100 PERCENT STANDARD PROCTOR DENSITY, ASTM D698.
8. ALL EXISTING WATER VALVES WILL BE OPERATED BY ST. LOUIS COUNTY WATER COMPANY REPRESENTATIVES ONLY.
9. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING WATER OR SEWER FACILITY PROPOSED FOR CONNECTION OR USE BY THIS PROJECT.
10. ALL HYDRANTS AND MAINS MUST BE INSTALLED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.
11. WATER, SANITARY AND STORM SEWER LINES SHALL BE INSTALLED MAINTAINING A MINIMUM 2' VERTICAL AND 2' HORIZONTAL SEPARATION. WATER LINES SHALL BE PLACED ABOVE SANITARY AND STORM SEWER LINES.
12. DOMESTIC WATER LINE FROM METER TO BUILDING SHALL BE TYPE K SOFT COPPER.

UTILITY PLAN LEGEND

EXISTING		PROPOSED
--- G ---	GAS	—— G ——
--- W ---	WATER	—— W ——
--- F ---	FIRE	—— W ——
--- E ---	ELECTRICITY	—— E ——
--- T ---	TELEPHONE	—— T ——
--- SS ---	SANITARY SEWER	—— SS ——
	THRUST BLOCK	
	FIRE HYDRANT ASSEMBLY	FH
	MANHOLE	
	CLEANOUT	
	POST INDICATOR VALVE	PIV
	VALVE	
	STRUCTURE LABEL	A-1
	WATER METER	
	LIGHTING	

UTILITY PLAN DESIGN NOTES AND KEY PLAN

THE CONTRACTOR SHALL PROVIDE THE NECESSARY FITTINGS TO CONNECT THE NEW SERVICE LINE EXTENSION TO THE EXISTING SEWER LATERAL/MAIN. THE CONTRACTOR SHALL VERIFY SIZE, LOCATION, MATERIAL AND INVERT ELEVATION PRIOR TO INSTALLING ANY ON-SITE SEWER FACILITIES. MINOR ADJUSTMENTS TO THE NEW SERVICE LINE INVERT ELEVATION MAY BE NECESSARY DEPENDING UPON FIELD MEASUREMENTS.

CAUTION/WARNING:

THE CONTRACTOR SHALL USE EXTREME CAUTION TO PROPERLY SHEET, SHORE, AND DEWATER EXCAVATION TO COMPLETE THE CONNECTION IN A SAFE MANNER, AND WITHOUT DAMAGE OR SETTLEMENT TO EXISTING FACILITIES, ROAD OR SHOPPING CENTER DRIVE. PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES TO PREVENT TRAFFIC FROM DRIVING TOO CLOSE TO THE EXCAVATIONS AND OTHER RELATED WORK AREAS.

1. PAY METER/TAPPING FEES FOR ST. LOUIS COUNTY WATER COMPANY TO PROVIDE 1½" DOMESTIC WATER SERVICE TAP AND METER, IF REQUIRED.
2. PAY METER/TAPPING FEES FOR ST. LOUIS COUNTY WATER COMPANY TO PROVIDE 1" IRRIGATION WATER SERVICE TAP AND METER. ON-SITE IRRIGATION LINES AND MATERIALS SHALL BE INSTALLED BY THE IRRIGATION CONTRACTOR AS INDICATED ON THE IRRIGATION PLAN.
- 2a. INSTALL 1" RPZ BACK FLOW PREVENTOR (IRRIGATION)(IF REQUIRED). INSTALL 1" RPZ BACK FLOW PREVENTOR (DOMESTIC)(IF REQUIRED).
3. INSTALL 1.5" TYPE K COPPER WATER SERVICE. PLUMBING CONTRACTOR TO COORDINATE WITH BUILDING CONTRACTOR.
4. ¾" CW TO DUMPSTER POST HYDRANT
5. INSTALL 4" WASTEWATER SERVICE LATERAL. CONTRACTOR SHALL LOCATE EXISTING SERVICE LATERAL PRIOR TO TRENCHING AND MAKE CONNECTION.
6. 4" SCHEDULE 40 PVC WASTEWATER SERVICE LINE AT 2.0% (MIN.) SLOPE.
7. INSTALL 4" CLEAN OUT EVERY 100' MINIMUM. USE TRAFFIC RATED CLEANOUT IN ALL PAVEMENT AREAS AS REQUIRED.
8. PRECAST 1000 GAL. CAPACITY GREASE TRAP. PLUMBING CONTRACTOR SHALL COORDINATE WITH BUILDING CONTRACTOR. TOP OF MANHOLE TO BE 0.2' ABOVE FINISH GRADE AND MATCH SIDEWALK GRADES WHERE REQUIRED. VERIFY GREASE TRAP MEETS ST. LOUIS METROPOLITAN SEWER DISTRICT SPECIFICATIONS PRIOR TO INSTALLATION. REFER TO PLUMBING PLAN, SHEET P-1.1, DETAIL SHOWN ON SHEET C-5.0.
9. 4" KITCHEN WASTE LINE
10. 3" VENT LINE. CONNECT TO GREASE INTERCEPTOR (SEE SHEET P1 FOR LOCATION).
11. 4" RESTROOM WASTE LINE
12. 3" DUMPSTER WASTE LINE AT 1.0% SLOPE MIN. (IF REQUIRED BY LOCAL JURISDICTION), INCLUDING ALL FITTINGS
13. DUMPSTER PAD DRAIN REFER TO THE FIXTURE CONNECTION SCHEDULE (P-32) DEPICTED ON THE PROJECT PLUMBING PLANS. REFER TO DETAILS.
14. DUMPSTER POST HYDRANT REFER TO THE FIXTURE CONNECTION SCHEDULE (P-31) DEPICTED ON THE PROJECT PLUMBING PLANS. DETAIL SHOWN ON SHEET C-5.0.
15. CFA SERVICE
16. DOWNSPOUT FOR ROOF DRAINAGE (REFER TO ARCHITECTURAL PLANS)
17. EXISTING WATER LINE
18. PROPOSED GAS SERVICE BY LACLEDE GAS COMPANY. CONTRACTOR SHALL COORDINATE INSTALLATION TO INSURE THE APPROPRIATE BENDS ARE INCORPORATED TO MAINTAIN A MINIMUM OF 1.0' CLEARANCE BELOW ALL STORM SEWER, WATER, AND WASTEWATER LINES OR SERVICES WHEN CROSSING.
19. COORDINATE GAS METER INSTALLATION WITH LACLEDE GAS COMPANY.
20. 4" SCHEDULE 40 PVC IRRIGATION SLEEVE (REFER TO IRRIGATION PLANS)
21. 4" PVC SCHEDULE 80 ROOF DRAIN PIPE STUBBED THROUGH CURB
22. UNDERGROUND PRIMARY ELECTRIC SERVICE.
23. INSTALL PAD MOUNTED TRANSFORMER PER AMEREN UE STANDARDS. SEE SERVICE UTILITY NOTES, THIS SHEET.
24. UNDERGROUND PRIMARY TELEPHONE SERVICE.
25. UNDERGROUND SECONDARY ELECTRIC SERVICE TO BUILDING. CONTRACTOR SHALL INSTALL AND PAY ALL AFFILIATED COST RELATED TO WORK. SEE SERVICE UTILITY NOTES, THIS SHEET. (REFER TO MEP PLANS)
26. 4" TWO-WAY CLEAN OUT (REFER TO PLUMBING PLANS)

NOTICE: EXISTING UTILITY LOCATIONS

PRIOR TO EXCAVATION AND INSTALLATION OF ANY UNDERGROUND UTILITY, STORM DRAINAGE FACILITIES, GRADING & PAVING, AND OTHER RELATED CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY LOCATING COMPANY. THE CONTRACTOR SHALL ALSO BE REQUIRED TO COORDINATE DIRECTLY (AS NECESSARY) WITH EACH APPLICABLE UTILITY AGENCY FOR APPROPRIATE FIELD LOCATION MARKING. THE CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED & MARKED TO PERFORM THE WORK IN A SAFE MANNER WITHOUT DAMAGE TO EXISTING UTILITIES.

NOTICE: COORDINATION OF UTILITIES INSTALLATION

THE CONTRACTOR SHALL COORDINATE WITH EACH UTILITY AGENCY FOR INSTALLATION OF SERVICE, ROUTE SELECTION, AND OTHER ISSUES PERTAINING TO INSTALLATION.

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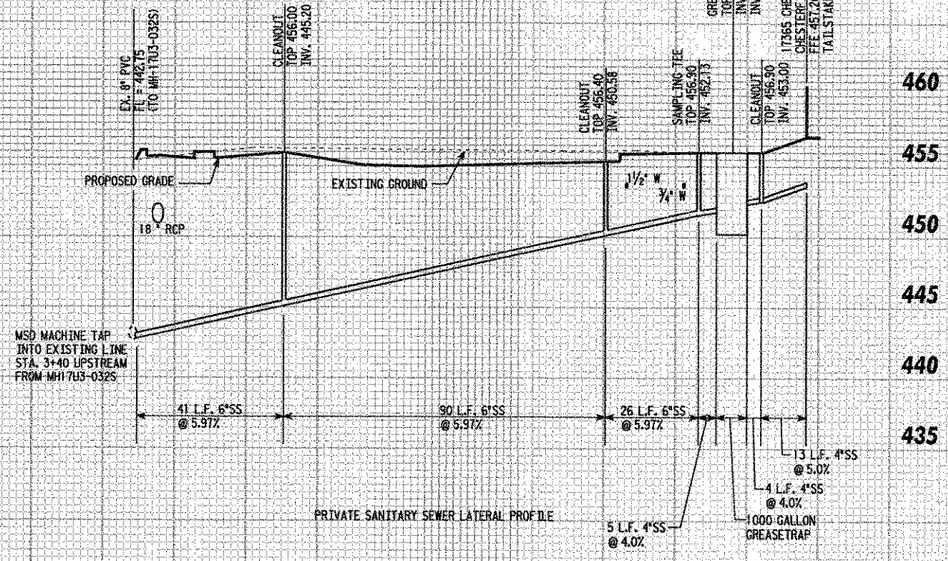

PRIVATE SANITARY SEWER LATERAL PROFILE

CONTRACTOR
SHALL FIELD VERIFY
AND REPORT LATERAL
ELEVATION DISCREPANCIES
TO ENGINEER PRIOR TO
CONSTRUCTION

FOR CONSTRUCTION ONLY

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

NOTE:
ALL PIPE LENGTHS ARE HORIZONTAL DISTANCE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. CONTRACTOR TO ESTABLISH THE LENGTH OF PIPE REQUIRED TO DEVELOP THE SYSTEM.

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Revisions:

Mark	Date	By
△		
△		
△		

Seal

PBS&J
5665 New Northside Drive
Suite 1800
Atlanta Georgia, 30328
(770) 933-0280
(770) 933-0971 fax

STORE
SERIES S06C-R
17365
CHESTERFIELD
AIRPORT ROAD
CHESTERFIELD,
MISSOURI 63005
ZONING: C-8
PARCEL ID# 17U330189

SHEET TITLE
SANITARY
SEWER
PROFILES

☐Preliminary
☐80% Submittal
☐For Construction

Job No.: 061781.00
Store: 1976
Date: 6-08-06
Drawn By: JDR
Checked By: TMR

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PS-1.1

12-MAR-2007
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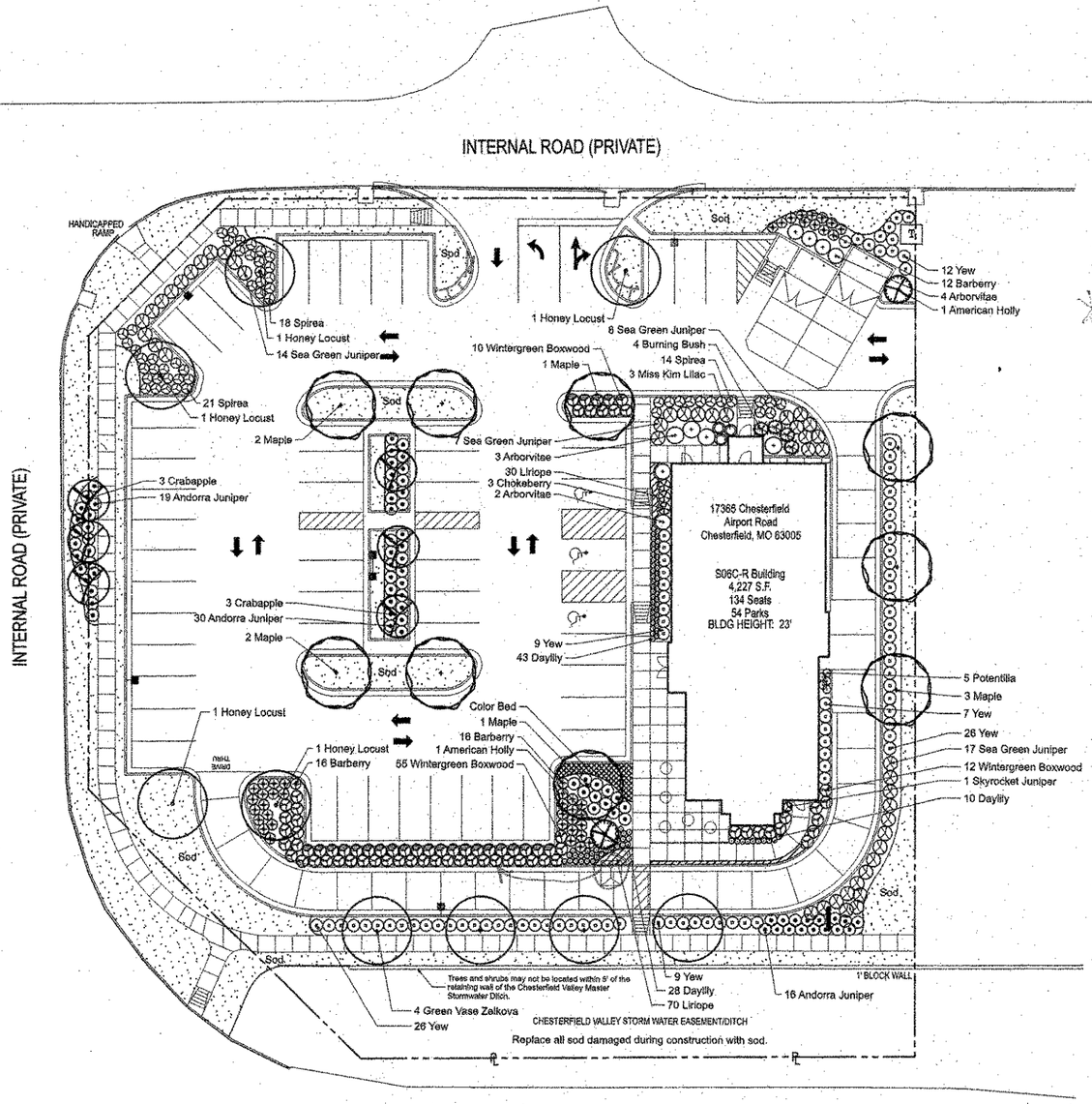
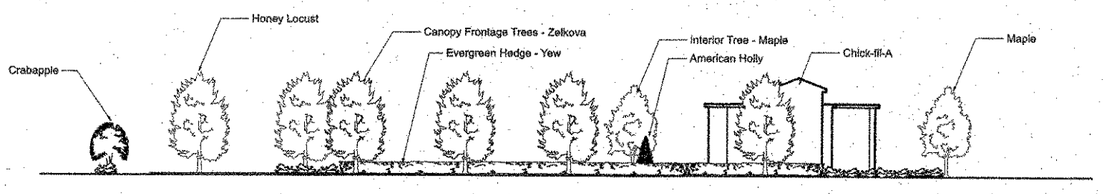
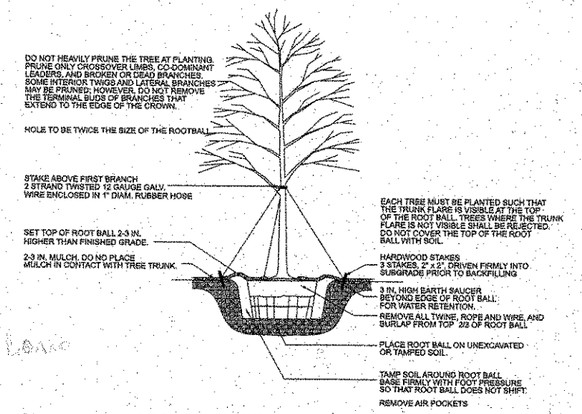


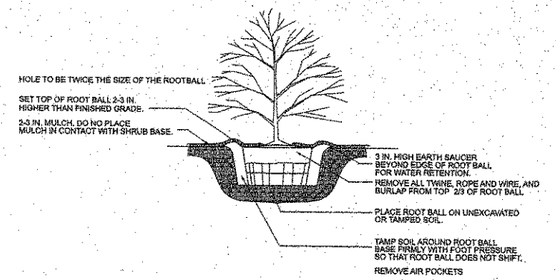


CHESTERFIELD AIRPORT ROAD LANDSCAPE ELEVATION



TREE PLANTING DETAIL

NTS



SHRUB PLANTING DETAIL

NTS

Plant List Chesterfield Chick-fil-A

7.21.06

Qty	Botanical Name	Common Name	Size and Spec	Evg (E) Decid (D)	Maturity Hgt x Spr	Potential Problems
Trees						
9	Acer rubrum 'Red Sunset'	Red Sunset Maple	2.5" Cal. Min; B&B	D	50'x35'	None
2	Ilex opaca	American Holly	8' Hgt. Min; B&B	E	20'x10'	Leaf Miner, scale
5	Gleditsia tricanthos 'Skyline'	Skyline Honey Locust	2.5" Cal. Min; B&B	D	45'x35'	Susceptable to disease if not maintained
6	Malus 'Spring Snow'	Spring Snow Crabapple	2.5" Cal. Min; B&B	D	20'x15'	Susceptable to disease if not maintained
4	Zelkova serrata 'Green Vase'	Green Vase Zelkova	2.5" Cal. Min; B&B	D	70'x40'	Susceptable to disease if not maintained
Shrubs						
3	Aronia melanocarpa	Black Chokeberry	18" Hgt. Min	D	6' Hgt	None Serious
44	Berberis thungergii 'Crimson Pygmy'	Crimson Pygmy Barberry	12" Hgt. Min	D	2'x3'	None Serious
4	Euonymus alatus 'Compactus'	Dwarf Burning Bush	18"-24" Hgt.; B&B	D	10' Hgt.	None
81	Hemerocallis 'Stella d'Oro'	Stella d'Oro Daylily	1 Gal.	Perennial	2' Hgt.	None
77	Buxus macrophylla 'Wintergreen'	Wintergreen Boxwood	12" Hgt. Min	E	3'x3'	None
1	Juniperus scopulorum 'Skyrocket'	Skyrocket Juniper	6' Hgt.	E	15'x2'	None Serious
77	Juniperus horizontalis 'Compacta'	Andorra Juniper	3 Gal	E	18"x6'	None Serious
46	Juniperus chinensis 'Sea Green'	Sea Green Juniper	18" Hgt. Min	E	4'x6'	None Serious
100	Liriope muscari 'Big Blue'	Big Blue Liriope	4" pot; plant 15" OC	D	12"x18"	None
5	Potentilla fruticosa 'Goldfinger'	Goldfinger Potentilla	12" Hgt. Min	D	3'x4'	None
53	Spiraea x bumalda 'Gold Mound'	Gold Mound Spirea	12" Hgt. Min	D	2.5'x4'	None Serious
3	Syringa 'Miss Kim'	Miss Kim Lilac	18" Hgt. Min	D	6'x4'	None Serious
89	Taxus media 'Densiformis'	Dense Yew	18" Hgt. Min	E	4'x6'	None Serious
10	Thuja occidentalis 'Techny'	Mission Arborvitae	6' Hgt.; Specimen	E	12'x6'	Subject to Bagworm
Other						
120	Annual Color Bed	Seasonal	SF; Prep and Plant			
8000	Sod	Match adjacent property	SF			

	Acer rubrum 'Red Sunset'	Red Sunset Maple
	Ilex opaca	American Holly
	Gleditsia tricanthos 'Skyline'	Skyline Honey Locust
	Malus 'Spring Snow'	Spring Snow Crabapple
	Zelkova serrata	Japanese Zelkova

Landscape Requirements:

Required: 1 tree / 50 LF of ROW frontage
160.19 LF / 50 = 4 trees

Provided: 4 Zelkova

Required: each parking space must be within 50' of a tree

Provided: each parking space is within 50' of a tree

Total Site Area 55,669 SF
Total Landscape Area 16,980 SF = 31% of total site area

NORTH

0 10 20 40
GRAPHIC SCALE IN FEET

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By	
1	6.7.06	KMD	Add light poles
2	6.28.06	SLM	City Comments
3	7.21.06	KMD	ARB Comments
4	8.18.06	KMD	Relocate Sidewalk
5	9.15.06	KMD	Relocate Transformer

Seal

STATE OF MISSOURI
TED H. SPAID
NUMBER LA-162
LANDSCAPE ARCHITECT
9/12/06

MANLEY LAND DESIGN INC
landscape architecture
51 old canton street alpharetta, georgia 30004
ph 770-442-8071 fax 770-442-1123
tmanley@manleylandesign.com

IVEY LANDSCAPING, INC.
500 Mercury Ct.
Alpharetta, GA 3002 2
770-663-0020
770-663-42 88 fax

STORE

Chesterfield Commons North
17365 Chesterfield Airport Rd
St Louis County
Chesterfield, MO 63005

SHEET TITLE
Landscape Plan

DWG EDITION
☐ Preliminary
☐ 80% Submittal
☐ For Construction

Job No. : 2006051
Store :
Date : 5.18.06
Drawn By : KMD
Checked By: SLM

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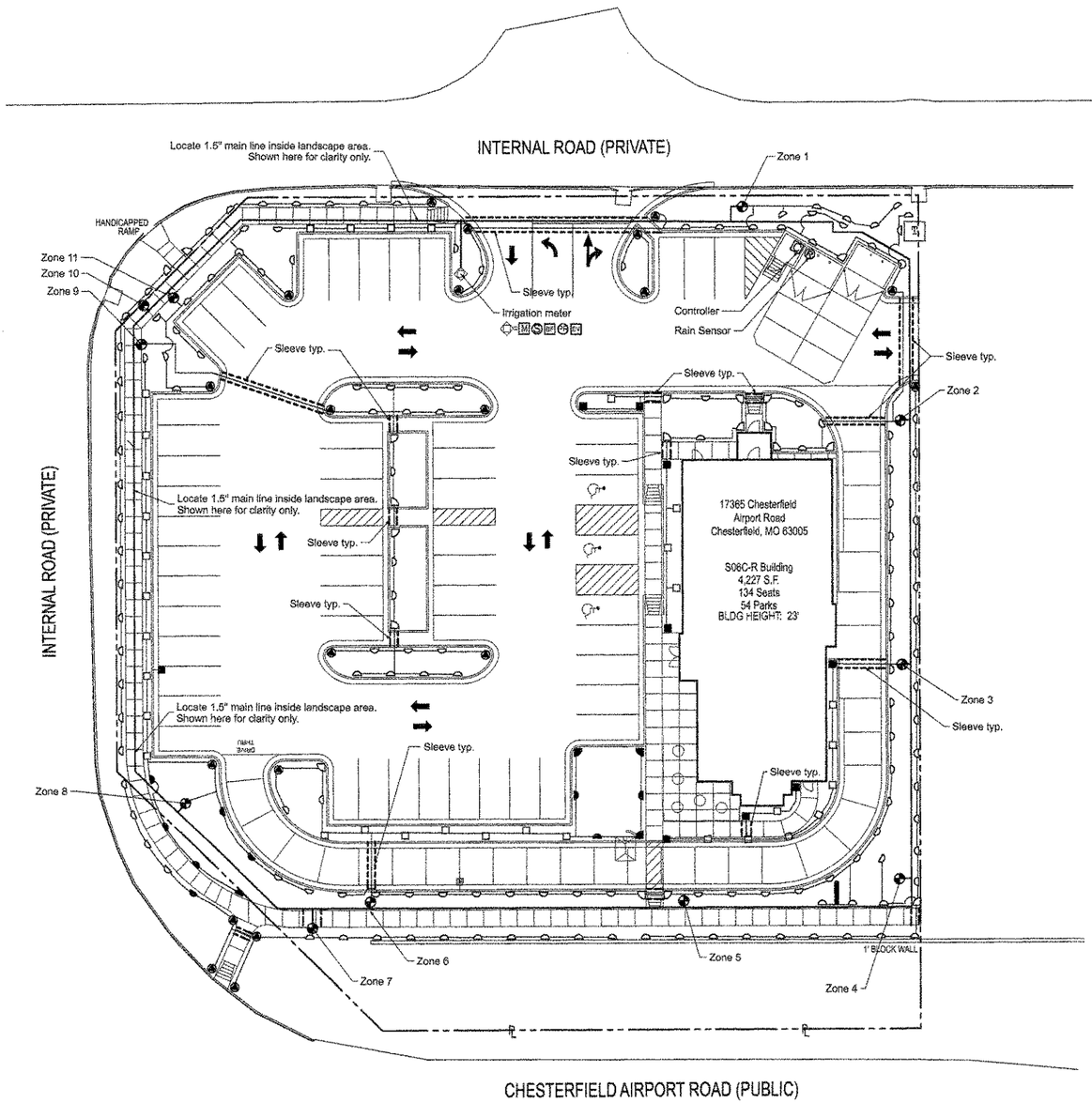


IRRIGATION LEGEND

M	1" IRRIGATION METER	
S	1" MANUAL SHUTOFF VALVE	(1 REQUIRED)
BF	RPZ BACKFLOW PREVENTOR	AS REQUIRED BY CITY
PR	1" PRESSURE REGULATOR	TORO PRV-150-HR-35 or EQUAL
EV	1" ELECTRICAL MASTER VALVE	(1 REQUIRED)
	SIDE STRIP SPRAY HEAD	TORO 570-4-SST or EQUAL
	END STRIP SPRAY HEAD	TORO 570-4-EST or EQUAL
	360 SPRAY HEAD - 10' RADIUS	TORO 570-10-F or EQUAL
	270 SPRAY HEAD - 10' RADIUS	TORO 570-10-TQ or EQUAL
	180 SPRAY HEAD - 10' RADIUS	TORO 570-10-H or EQUAL
	90 SPRAY HEAD - 10' RADIUS	TORO 570-10-Q or EQUAL
	VARIABLE SPRAY HEAD	TORO 570-V-15 or EQUAL
	360 SPRAY HEAD - 15' RADIUS	TORO 570-15-F or EQUAL
	270 SPRAY HEAD - 15' RADIUS	TORO 570-15-TQ or EQUAL
	180 SPRAY HEAD - 15' RADIUS	TORO 570-15-H or EQUAL
	90 SPRAY HEAD - 15' RADIUS	TORO 570-15-Q or EQUAL
	1" ELECTRIC VALVE	TORO 252-06-04 (11 REQUIRED)
C	AUTOMATIC CONTROLLER	RAINBIRD ESP-12C or EQUAL 11 STATIONS
R	RAIN SENSOR	TORO 850-74
	CLASS 200 PVC IRRIGATION PIPE AND FITTINGS	1" PIPE unless otherwise indicated on drawing 1.5" main line
	4" CLASS 200 PVC SLEEVE UNDER PAVEMENT	installation of sleeves by contractor in location as shown on plan

IRRIGATION NOTES:

1. IRRIGATION CONTRACTOR TO LOCATE AND PROTECT ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
2. ALL VALVES TO BE LOCATED IN VALVE BOX WITH COVER AT GRADE. LOCATE BOX IN GRASS AREA WHEN POSSIBLE.
3. AUTOMATIC CONTROLLER AND RAIN SENSOR TO BE LOCATED IN THE STORAGE ROOM TRASH ENCLOSURE RESPECTIVELY.
4. 60 PSI REQUIRED PER ROTOR STATION. 40 PSI REQUIRED PER SPRAY STATION. FLOW ADJUSTMENTS CAN BE MADE AT THE ZONE'S VALVE TO COMPENSATE DIFFERENCE IN PSI.
5. PRESSURE REGULATOR REQUIRED BY LOCAL CODE IF STATIC WATER PRESSURE AT POINT OF CONNECTION FOR SITE IS GREATER THAN 80 PSI.
6. 4" CLASS 200 PVC SLEEVES TO BE LOCATED AS SHOWN ON DRAWING. EXTEND SLEEVE 18" BEYOND BACK OF CURB OR PAVEMENT. SLEEVES TO BE LOCATED AND EXPOSED BY THE GENERAL CONTRACTOR PRIOR TO START OF IRRIGATION INSTALLATION.
7. POP-UP HEIGHT OF SPRAY HEADS TO BE AS FOLLOWS: 4" IN TURF ZONES, 6" IN SHRUB ZONES, AND 12" IN SEASONAL/COLOR BEDS. ROTOR HEIGHT TO BE 4". NOZZLE SIZE IS INDICATED ON DRAWING.
8. ALL PIPES, AUTOMATIC VALVES, BACKFLOW PREVENTOR, MANUAL VALVE AND METER TO BE LOCATED WITHIN PROPERTY LINES. SHOWN OUTSIDE ON DRAWING FOR CLARITY ONLY.
9. IRRIGATION METER AND BACKFLOW PREVENTOR TO BE PROVIDED BY THE GENERAL CONTRACTOR.
10. ALL 1.5" MAIN LINES TO HAVE A MINIMUM OF 18" COVER (CLASS 200 PVC PIPE).
11. ALL LATERAL AND SUB-MAIN PIPE TO HAVE A MINIMUM OF 12" AND A MAXIMUM OF 18" COVER.
12. NO ROCKS, BOULDERS, OR OTHER EXTRANEOUS MATERIALS TO BE USED IN BACKFILLING TRENCHES.
13. ALL PIPE TO BE INSTALLED AS PER MANUFACTURERS SPECIFICATIONS.
14. ALL THREADED JOINTS TO BE COATED WITH TEFLON TAPE OR LIQUID TEFLON.
15. ALL LINES TO BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF SPRINKLER HEADS.
16. AN APPROVED EQUAL PRODUCT MAY BE SUBSTITUTED FOR THE SPECIFIED PRODUCT ON THIS DRAWING.
17. EACH IRRIGATION ZONE WILL HAVE A RUN TIME OF APPROXIMATELY 10 MINUTES FOR 3 DAYS A WEEK.
18. IRRIGATION CONTRACTOR SHALL PROVIDE AN AS BUILT DRAWING TO THE LANDSCAPE ARCHITECT. THIS DRAWING SHALL BE OVERNIGHTED TO MANLEY LAND DESIGN, INC WITHIN 24 HOURS OF COMPLETION OF INSTALLATION.

IRRIGATION ZONES

1	18.95	GPM
2	20.30	GPM
3	16.80	GPM
4	23.55	GPM
5	19.70	GPM
6	19.24	GPM
7	17.72	GPM
8	21.52	GPM
9	20.25	GPM
10	20.65	GPM
11	11.80	GPM

NORTH

0 10 20 40

GRAPHIC SCALE IN FEET

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
4	8.18.06	KMD
	Relocate Sidewalk	
5	9.15.06	KMD
	Relocate Transformer	

Mark Date By

Seal

MANLEY LAND DESIGN INC.
landscape architecture
51 old canton street alpharetta, georgia 30004
ph 770-442-8171 fax 770-442-1123
smanley@manleylanddesign.com

IVEY LANDSCAPING, INC.
560 Merriaway Ct.
Alpharetta, GA 30022
770-663-0020
770-663-4288 fax

STORE

Chesterfield Commons North
17365 Chesterfield Airport Rd
St Louis County
Chesterfield, MO 63005

SHEET TITLE

Irrigation Plan

DWG EDITION ...

- ☐ Preliminary
- ☐ 80% Submittal
- ☐ For Construction

Job No.	: 2006051
Store	:
Date	: 8.4.06
Drawn By	: KMD
Checked By:	SLM

Sheet

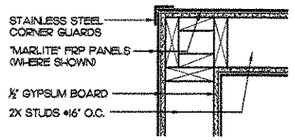
L-2.0

5. GENERAL NOTES:

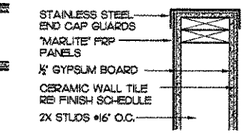
1. DIMENSIONS ARE FROM THE FACE OF STUD TO FACE OF STUD (UNLESS OTHERWISE NOTED).
2. ALL EXTERIOR WALLS ARE 2X6 WOOD STUDS (UNLESS OTHERWISE NOTED)
3. PROVIDE 5½" HIGH CONCRETE MILLWORK CURBS BY THE GENERAL CONTRACTOR (RE: CLAYTON FIXTURE SHOP DRAWINGS FOR EXACT LOCATIONS & DIMENSIONS).
4. REFER TO INTERIOR ELEVATIONS FOR WALL BLOCKING WITHIN WALLS FOR SHELVING, BRACKETS, GROUNDS, FIXTURES, ETC.
5. ALL FASTENERS, ANCHORS, CLIPS, STRAPS, & ETC. WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD AND ARE LESS THAN 3/8" THICK SHALL BE G185 COATED GALVANIZED, STAINLESS STEEL OR AN APPROVED EQUAL.
6. LIMITED COMBUSTIBLE CONSTRUCTION SHALL CONSIST OF 6" METAL STUDS (COORDINATE GAUGE W/ STRUCTURAL) W/ ½" DUROCK ON EACH SIDE. LIMITED COMBUSTION CONSTRUCTION SHALL BE USED WITHIN 18", BEHIND & UNDER ALL HOODS.
7. PROVIDE 6" KRAFT FACED FIBERGLASS (R-19) BATT INSULATION WITH FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450 AT ALL EXTERIOR WALLS.
8. REFER TO CIVIL DRAWINGS FOR LOCATIONS OF WALKS, BOLLARDS, LANDSCAPING AREAS, FLAG POLE, ETC.
9. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS AND TYPES OF CORNER GUARDS.
10. PROVIDE 3 1/2" BATT INSULATION WITH FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450 IN WALL BETWEEN KITCHEN & DINING "A" & AT WALL SEPARATING WOMENS RESTROOM FROM DINING "A."

LEGEND:

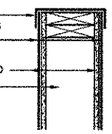
- 2X6 WOOD STUD WALL
- 2X6 TREATED WOOD STUDS
- 2X8 WOOD STUD WALL
- 6" METAL STUDS RE: GENERAL NOTES, #6
- 2X4 WOOD STUD WALL
- STONE VENEER
- COLUMN RE: STRUCTURAL



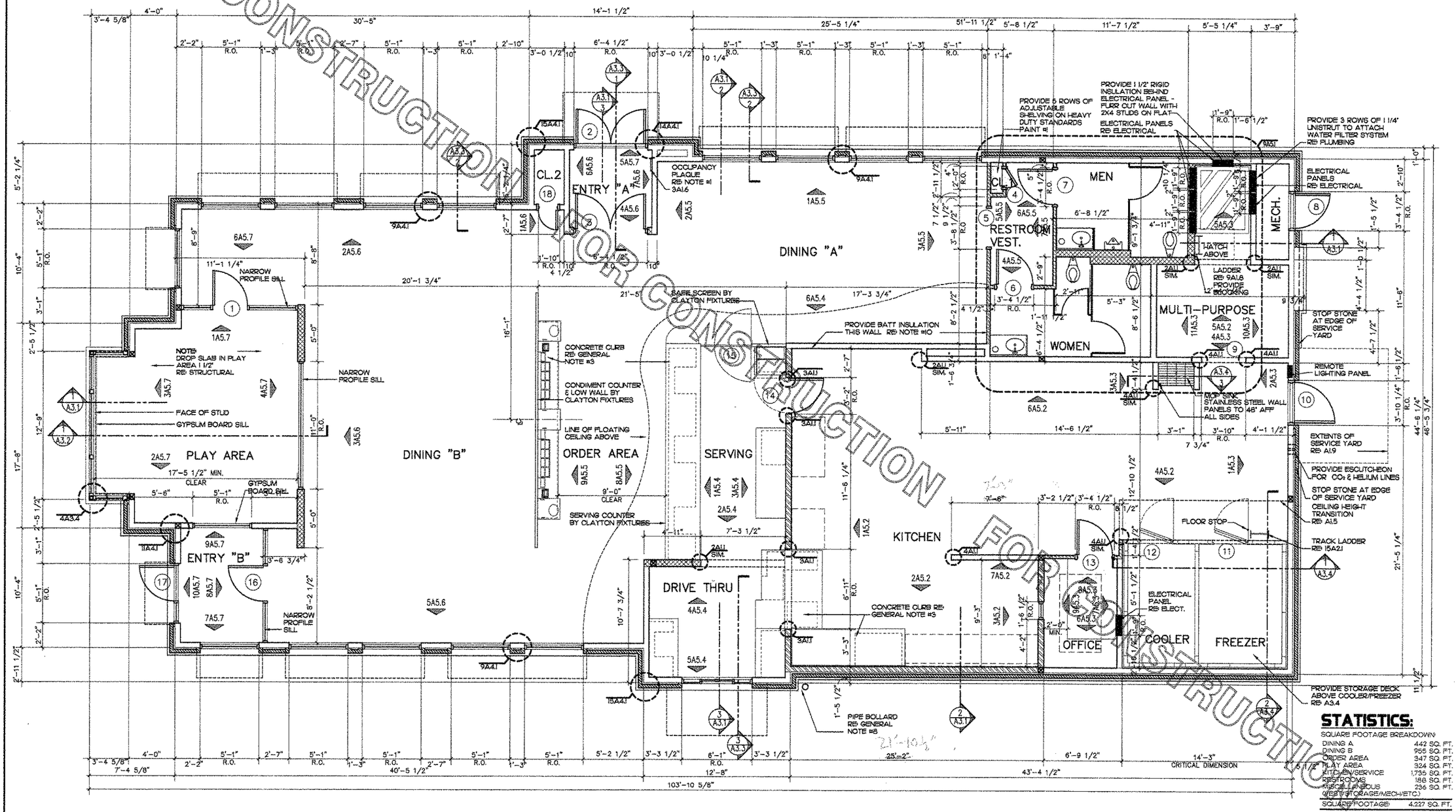
2 CORNER GUARD
1 1/2"=1'-0"



3 END CAP WITH TILE
1 1/2"=1'-0"



4 END CAP
1 1/2"=1'-0"



NOT FOR CONSTRUCTION

STATISTICS:

SQUARE FOOTAGE BREAKDOWN

DINING A	442 SQ. FT.
DINING B	955 SQ. FT.
ORDER AREA	347 SQ. FT.
PLAY AREA	324 SQ. FT.
KITCHEN/SERVICE	1,735 SQ. FT.
RESTROOMS	186 SQ. FT.
MISCELLANEOUS (VEST/STORAGE/MECH/ETC.)	236 SQ. FT.
SQUARE FOOTAGE:	4,227 SQ. FT.

SEAT COUNT:

DINING "A"	42 SEATS
DINING "B"	92 SEATS
TOTAL	134 SEATS

1 FLOOR PLAN
1/4"= 1'-0"

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

CC#1
SUBS
CC#12

EDWARDS + HOTCHKISS ARCHITECTS, P.C.
THE HORSE BARN AT
THE HORSE FARM
219 WARD CIRCLE, SUITE 1
BRENTWOOD, TENNESSEE
37027-7593
PHONE: 615/377-3111
FAX: 615/377-0878
E-MAIL: gemma@ewarchorch.com
e+h ARCHITECTS

STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
FLOOR PLAN

DWG EDITION 05.9
REVISION —

Job No. :-----
Store :1976
Date :-----
Drawn By :---
Checked By:---

Sheet
A-1.1

2 FINISH SCHEDULE LEGEND

FLOOR	SEAMLESS VINYL FLOORING (SVF) PROTECT-ALL SHEET FLOORING, COLOR: DARK GREY TEXTURE SIDE UP • SEE NOTE #12	SEAMLESS VINYL FLOOR BASE PROTECT-ALL 6" HIGH INTEGRAL COVED BASE RE: 4A1.8			
	CERAMIC TILE BASE #1 (CTB #1) DAL TILE, TERRA ANTIQUA SERIES, 6X12 WITH COVE BASE AND BULLNOSE COLOR - #TA-01 "ORO" •SEE NOTES #4, #6 & #10	CERAMIC TILE BASE #2 (CTB #2) DAL TILE, TERRA ANTIQUA SERIES, 6X12 WITH COVE BASE AND BULLNOSE COLOR - #TA-01 "ORO" •SEE NOTES #4, #6 & #10	CERAMIC TILE #1 (CT #1) DAL TILE, TERRA ANTIQUA SERIES, 12X 12 COLOR - #TA-01 "ORO" •SEE NOTES #4 & #10	DINING ROOM TILE GROUT TEC, SANDED COLOR - #941 RAVEN •SEE NOTE #2	
WALLS	CERAMIC TILE #1 DAL TILE, TERRA ANTIQUA SERIES, 6X6 COLOR - #TA-01 "ORO" •SEE NOTES #4, #9 & #10	CERAMIC TILE #2 DAL TILE, DMI VERMILLION, 4 1/4 X 4 1/4 TILE COLOR - VERMILLION RED •SEE NOTE #4	CERAMIC TILE #3 DAL TILE, DMI VERMILLION, 6X6 BULLNOSE TILE COLOR - VERMILLION RED •SEE NOTE #4	WALL TILE GROUT TEC SANDED COLOR - #929 CHARCOAL GRAY •SEE NOTE #2	BEAD BOARD #1 GEORGIA PACIFIC "BEDFORD VILLAGE" - 1/4" UNFINISHED OAK PROVIDED AND INSTALLED BY GENERAL CONTRACTOR PAINT TO MATCH WALL ABOVE •SEE NOTE #15
	PAINT #1 SHERWIN WILLIAMS, #SW6114 "BAGEL" SEMI-GLOSS ON WALLS •SEE NOTES #1, #14 RE: 6A1.2	PAINT #2 SHERWIN WILLIAMS, #SW6108 "LATTE" EGGSHELL FINISH ON DOOR FRAMES, SEMI-GLOSS ON WALLS •SEE NOTES #1, #14 RE: 6A1.2	PAINT #3 SHERWIN WILLIAMS, #SW6144 "ZAPPER TAN" EGGSHELL FINISH ON DOOR FRAMES, SEMI-GLOSS ON WALLS •SEE NOTES #1, #14 RE: 6A1.2	PAINT #4 SHERWIN WILLIAMS METALATEX, #B42238 "SAFETY RED" SEMI-GLOSS	PAINT #5 - METAL SHERWIN WILLIAMS, DARK BRONZE BRONZETONE #504 - #B54T104 - INDUSTRIAL ENAMEL ULTRA DEEP BASE (PRIME W/ PREP-RITE BONDING PRIMER #B51W50)
	PAINT #6 SHERWIN WILLIAMS, #SW7013 "IVORY LACE" EGGSHELL FINISH ON DOOR FRAMES •SEE NOTES #1, #14 RE: 6A1.2	STAIN #1 SHERWIN WILLIAMS, #SW3214 "TRADITIONAL CHERRY" WITH ONE COAT OF SATIN FINISH POLYURETHANE	FRP MARLITE P-198 BRIGHT WHITE 0.90 THICKNESS •SEE NOTE #8	ROLLER SHADE FLOWER SHEERWEAVE, V19 HARVEST WHEAT 25% INTERIOR ELEVATIONS •SEE NOTE #13	PLASTIC LAMINATE #1 WILSONART, 4738-60 OCHRE ROLETTA
CEILINGS	CEILING TILE #1 ARMSTRONG WORLD INDUSTRIES, WHITE W/ WHITE GRID 24" X 24" VINYL ROCK •SEE NOTE #16	CEILING TILE #2 ARMSTRONG WORLD INDUSTRIES, WHITE W/ WHITE GRID 24" X 24" CORTEGA #704 ANGLED TEGULAR EDGE W/ INFINITY EDGE TRIM BY CHICAGO METALLIC - PREFINISHED TO MATCH PAINT #3 •SEE NOTES #5 & #16	CEILING TILE #3 ARMSTRONG WORLD INDUSTRIES, WHITE W/ WHITE GRID 24" X 24" CORTEGA #704 ANGLED TEGULAR EDGE •SEE NOTE #16	PAINT #2 SHERWIN WILLIAMS, #SW6108 "LATTE" EGGSHELL FINISH RE: 6A1.2	PAINT #6 SHERWIN WILLIAMS, #SW7013 "IVORY LACE" EGGSHELL FINISH RE: 6A1.2
SOLID SURFACE	SOLID SURFACE #1 1/2" GIBRALTAR QUARRY MELANGE WITH FROSTED WHITE BOWL (PROVIDED BY CLAYTON FIXTURES)	SOLID SURFACE #2 1/2" GIBRALTAR QUARRY MELANGE (PROVIDED BY CLAYTON FIXTURES)	SOLID SURFACE #3 1/2" GIBRALTAR MIDNIGHT MELANGE (PROVIDED BY CLAYTON FIXTURES)		

3 NOTES

1. THE PAINTING CONTRACTOR SHALL PAINT THE DOOR FRAMES USING A BRUSH COAT FOR THE FIRST COAT AND A ROLLER COAT AS THE FINISH COAT.
2. ALL CERAMIC TILE SHALL HAVE 3/16" WIDE GROUT JOINTS.
3. PROVIDE 12" WIDE BAND OF ½" MOISTURE RESISTANT GYPSUM BOARD AT BASE OF ALL WALLS IN KITCHEN. RE: INTERIOR ELEVATIONS
   GYPSUM BOARD SHALL BE "DUROROCK" BY U.S. GYPSUM OR "DENSSHIELD" BY GEORGIA PACIFIC • 1-800-433-7293.
4. CERAMIC TILE - NATIONAL ACCOUNT - DAL TILE - CONTACT: KRISTY TAMPA • (404) 872-1930
5. INFINITY CEILING TRIM - NATIONAL ACCOUNT - CHICAGO METALLIC - CONTACT: RON SCHWEITZER 1-800-323-7164 EXT. 4592
6. CERAMIC TILE OUTSIDE CORNERS AT DINING, PROVIDE FULL SIZED TILES AT OUTSIDE CORNERS (NO FINGER JOINTS).
   USE 5/16" QUARTER ROUND TRIM STRIP # 347 5073 08025 BY BLANKE, COLOR CARAMEL. CONTACT FOR BLANKE: CATHERINE PETTY 1-800-767-5055.
7. CONTACT: BILL NEWTON • (800) 782-7529 EXT. 456 EMAIL: BILLN•SOFTPLAY.COM
8. MARLITE - CONTACT: CHERYL COCHRAN • (404) 496-1234 (PRIMARY)
   BARBARA PETERS • (800) 241-7533 (SECONDARY)
   MICHAEL HAVRILLA (404) 691-1234 (THIRD)
9. ADJUST TOP OF TILE HEIGHT AS REQUIRED TO INSTALL FULL WALL TILES.
10. WHEN USING TERRA ANTICA TILE, PULL FROM MULTIPLE BOXES TO ENSURE PROPER COLOR VARIATION.
11. CUT OFF BULLNOSE TOP.
12. PROTECT-ALL FLOORING IS AVAILABLE FROM OSCODA PLASTICS, INC. 1-800-544-9538 WWW.OSCODAPLASTICS.COM AND SHALL BE INSTALLED BY A CERTIFIED INSTALLER. FLOORING INSTALLER TO PROVIDE 2" 16 GA. STAINLESS STEEL RINGS AROUND FLOOR DRAINS & CLEAN OUTS. FLOAT THE FLOOR WITH A 2 PART THIN SET AT ANY SLAB DEPRESSION TO AVOID PONDING. FOLLOW MANUFACTURERS WRITTEN INSTRUCTIONS. INSTALL FLOOR TEXTURE SIDE UP (UPSIDE DOWN) UNLESS REQUIRED BY LOCAL HEALTH CODES.
13. WINDOW INTERIORS - CONTACT: LAURA STEWART • (407)-539-1303. EMAIL: LSTEWART•WINDOWINTERIORS.COM
14. PROVIDE SMOOTH FINISH TEXTURE ON ALL GYPSUM BOARD WALLS
15. INSTALL BEADBOARD SO THAT ALL LINES ARE PLUMB AND VERTICAL
16. CEILING TILE SHALL BE CLASSIFIED AS CLASS "A"

4 TERMITE TREATMENT

NATIONAL ACCOUNT TO PRE-TREAT SLABS:
TERMINIX, ACCOUNTANT REPRESENTATIVES:
TONY CANALE 1-800-238-6189 EXT #1753/CELL 901-359-1279 - EMAIL: TCANALE•TERMINIX.COM
ROSA NEWELL 1-800-238-6189 EXT #1410 - EMAIL: RNEWELL•TERMINIX.COM

PROCEDURE:
1. GENERAL CONTRACTOR SHALL CONTACT ACCOUNT REPRESENTATIVE 48 TO 72 HOURS BEFORE THE SLAB IS TO BE PLACED.
2. PROVIDE THE PROJECT ADDRESS, CFA STORE NUMBER, SQUARE FOOTAGE OF AREA TO BE TREATED AND BILLING ADDRESS OF THE GENERAL CONTRACTOR.
3. AFTER FINAL GRADING WORK HAS BEEN COMPLETED CONTACT THE ACCOUNT REPRESENTATIVE AND TERMINIX WILL TREAT THE PERIMETER OF THE BUILDING. PRIOR TO PLACEMENT OF SIDEWALKS
4. TERMINIX WILL FORWARD A COPY OF THE TREATMENT CERTIFICATE TO CFA HOME OFFICE AND THE GENERAL CONTRACTOR.

1 ROOM FINISH SCHEDULE

ROOM NAME	FLOOR	BASE	WALLS FRONT	WALLS BACK	WALLS SIDE DRIVE-THRU	WALLS SIDE ENTRY "A"	CEILING	REMARKS
ENTRY A	CERAMIC TILE #1	CERAMIC TILE BASE #1	PAINT #3	PAINT #3	PAINT #3	PAINT #3	PAINT #6	
ENTRY B	CERAMIC TILE #1	CERAMIC TILE BASE #1	PAINT #3	PAINT #3	PAINT #3	PAINT #3	PAINT #6	
DINING "A"	CERAMIC TILE #1	CERAMIC TILE BASE #1	PAINT #1 (GYP. BD) & BEAD BOARD #1	PAINT #1 (GYP. BD) & BEAD BOARD #1	PAINT #1 (GYP. BD) & BEAD BOARD #1	PAINT #1 (GYP. BD) & BEAD BOARD #1	CEILING TILE #2	
DINING "B"	CERAMIC TILE #1	CERAMIC TILE BASE #1	PAINT #1 (GYP. BD) & BEAD BOARD #1	PAINT #1 (GYP. BD) & BEAD BOARD #1	PAINT #1 (GYP. BD) & BEAD BOARD #1	PAINT #1 (GYP. BD) & BEAD BOARD #1	CEILING TILE #3	
CLOSET #2 (CL2)	CERAMIC TILE #1	CERAMIC TILE BASE #1	PAINT #1	PAINT #1	PAINT #1	PAINT #1	PAINT #6	
ORDER AREA	CERAMIC TILE #1	CERAMIC TILE BASE #1	C.T. #1, & #2	-	PAINT #1 (GYP. BD) & BEAD BOARD #1	PAINT #1 (GYP. BD) & BEAD BOARD #1	CEILING TILE #2	
PLAY AREA	PLAYGROUND INSTALLER	CERAMIC TILE BASE #1	PAINT #1	PAINT #1	PAINT #1	PAINT #1	CEILING TILE #3	FOR PLAY EQUIPMENT SEE NOTE #7 THIS SHEET
SERVING	SEAMLESS VINYL FLOORING	SEAMLESS VINYL FLOOR BASE	-	C.T. #1, & #2	C.T. #1, & #2	-	CEILING TILE #1	
DRIVE THRU	SEAMLESS VINYL FLOORING	SEAMLESS VINYL FLOOR BASE	FRP	C.T. #1, & #2	C.T. #1	FRP	CEILING TILE #1	
KITCHEN	SEAMLESS VINYL FLOORING	SEAMLESS VINYL FLOOR BASE	FRP & STAINLESS STEEL	FRP	FRP & STAINLESS STEEL	FRP	CEILING TILE #1	RE: NOTE #3 THIS SHEET
OFFICE	SEAMLESS VINYL FLOORING	SEAMLESS VINYL FLOOR BASE	FRP	FRP	FRP	FRP	CEILING TILE #1	
MULTIPURPOSE	SEAMLESS VINYL FLOORING	SEAMLESS VINYL FLOOR BASE	FRP	FRP	FRP	FRP	CEILING TILE #1	
COOLER	SEAMLESS VINYL FLOORING	SEAMLESS VINYL FLOOR BASE	-	-	-	-	-	
FREEZER	-	-	-	-	-	-	-	
RESTROOM VESTIBULE	CERAMIC TILE #1	CERAMIC TILE BASE #1	PAINT #3	PAINT #3	PAINT #3	PAINT #3	CEILING TILE #3	
MEN	CERAMIC TILE #1	CERAMIC TILE BASE #2	C.T. #1 & #3 PAINT #3 ABOVE	C.T. #1 & #3 PAINT #3 ABOVE	C.T. #1 & #3 PAINT #3 ABOVE	C.T. #1 & #3 PAINT #3 ABOVE	PAINT #3	PROVIDE MOISTURE RESISTANT GYPSUM BOARD ON ALL WALLS. RE: NOTE #3 FOR PRODUCTS
WOMEN	CERAMIC TILE #1	CERAMIC TILE BASE #2	C.T. #1 & #3 PAINT #3 ABOVE	C.T. #1 & #3 PAINT #3 ABOVE	C.T. #1 & #3 PAINT #3 ABOVE	C.T. #1 & #3 PAINT #3 ABOVE	PAINT #3	PROVIDE MOISTURE RESISTANT GYPSUM BOARD ON ALL WALLS. RE: NOTE #3 FOR PRODUCTS
CLOSET #1 (CL1)	CERAMIC TILE #1	CERAMIC TILE BASE #1	PAINT #3	PAINT #3	PAINT #3	PAINT #3	CEILING TILE #3	
STORAGE DECK	SEAMLESS VINYL FLOORING	SEAMLESS VINYL FLOOR BASE	FRP	FRP	FRP	FRP	CEILING TILE #1	
MECHANICAL	SEALED CONCRETE	CERAMIC TILE BASE #1	PAINT #6	PAINT #6	PAINT #6	PAINT #6	PAINT #6	
SERVICE YARD	SEALED CONCRETE	-	STUCCO #1	PAINT #5	PAINT #5	PAINT #5	VINYL COATED FENCING	
REFUSE ENCLOSURE STORAGE AREA	SEALED CONCRETE	-	PAINT #2	PAINT #2	PAINT #2	PAINT #2	PAINT #2	ALL EXTERIOR WALLS & INTERIOR OF STORAGE - PAINT #2 INTERIOR WALLS OF REFUSE AREA - PAINT #5
REFUSE ENCLOSURE DUMPSTER ENCLOSURE	SEALED CONCRETE	-	PAINT #5	PAINT #5	PAINT #5	PAINT #5	OPEN	

5 GLASS SCHEDULE

MARK	THICKNESS	TYPE	TINT	REMARKS
G1	1/4"	TEMPERED	CLEAR	
G2	1/4"	ANNEALED	ONEWAY GLASS	
G3	1/4"	LAMINATED	CLEAR	
G11	1/2"	TEMPERED	CLEAR	BUTT GLAZE
G21	1"	TEMPERED	CLEAR	INSULATED (PROVIDE 2" MULLIONS • EXTERIOR WINDOWS WHERE SHOWN)

6 PAINT SPECIFICATIONS

1.1 THE WORK WILL CONSIST OF ALL PREPARATION, PAINTING, FINISHING WORK, CLEAN UP AND RELATED ITEMS NECESSARY TO COMPLETE WORK DESCRIBED IN THESE SPECIFICATIONS.

1.2 KEEP SURFACES DUST, DIRT AND DEBRIS FREE BEFORE AND DURING PAINTING.

1.3 NORMAL SAFETY AND "WET PAINT" SIGNS, NECESSARY LIGHTING, ETC. SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH OSHA REQUIREMENTS WHILE THE WORK IS IN PROGRESS.

FOR CONSTRUCTION FOR CONSTRUCTION FOR CONSTRUCTION

Chick-fil-A, Inc.
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

Mark	Date	By

Mark	Date	By

CL#1

EDWARDS + HOTCHKISS ARCHITECTS, P.C.
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STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
FINISH SCHEDULE

DWG EDITION 05.9
REVISION –

Job No. :-----
Store :1976
Date :-----
Drawn By :---
Checked By:---

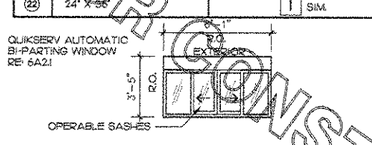
Sheet
A-1.2

2 HARDWARE SCHEDULE

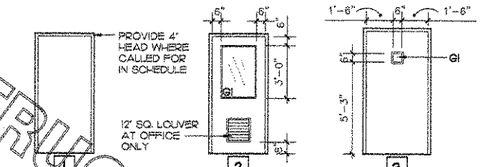
SET	QTY.	ITEM	MANUFACTURER	MODEL NUMBER
1	1	DOOR PUSH/PULL	YKK	H-1141
	1	THUMB TURN CYLINDER	YKK	H-4204
	1	DOOR CLOSER	LCN CLOSERS	#4041
	1 SET	O/S PIVOTS	YKK	BRONZE
	1	THRESHOLD	YKK	H-8107
	1	DOOR SWEEP	YKK	H-7101
	1	FLOOR STOP	YKK	
	NOTES: 1. PROVIDE CYLINDER BLANKS FOR DOORS NUMBER 3 & 16 2. DOUBLE QUANTITIES FOR DOORS 2 & 3			
2	1	PIANO HINGE	PEMKO	CMF83 HD X ALUM.X TEK
	1	EXIT DEVICE	VON DUPRIN	99NL X ALUM X 48"
	1	CYLINDER	SARGENT	34 X US26D
	1	DOOR PULL	BUILDERS BRASSWORKS	2901 X US32D X TB (NO PLATE)
	1	DOOR CLOSER	LCN CLOSERS	4111N HOUSH X ALUM X TB X RH
	1	ARMOR PLATE	BUILDERS BRASSWORKS	37 X 40" X 34" X US32D X SMS
	1	THRESHOLD	NATIONAL GUARD	425 X 48"
	1	DOOR SWEEP	NATIONAL GUARD	200N X 48"
	1 SET	WEATHERSTRIPPING	NATIONAL GUARD	160 X 1 / 48" - 2 / 84"
	3	SILENCERS	BUILDERS BRASSWORKS	WO7
	1	SECURITY WINDOW	A & J MANUFACTURING	AVGWF OS-3X 2"(INCLUDES MTL. FLAP)
3	1 1/2	HINGES (PAIR)	MCKINNEY MFG.	TA2714 X 4½ X 4½ X 8626D
	1	PUSH PLATE	BUILDERS BRASSWORKS	47 X 5" X 16" X US32D
	1	PULL PLATE	BUILDERS BRASSWORKS	47 X 2901 4" X 16" X US32D
	1	DOOR CLOSER	LCN CLOSERS	4111N CUSH X ALUM X TB X RH-REG. ARM
	3	SILENCERS	BUILDERS BRASSWORKS	WO7
	1	FLOOR STOP	BUILDERS BRASSWORKS	8063NX X US26D
4	1	PIANO HINGE	PEMKO	CMF83 HD X ALUM.X TEK
	1	EXIT DEVICE	VON DUPRIN	99NL X ALUM X 48"
	1	DOOR PULL	BUILDERS BRASSWORKS	106 X US26D
	1	DOOR CLOSER	LCN CLOSERS	4111N HOUSH X ALUM X TB X RH
	1	CYLINDER	SARGENT	34 X US26D
	3	SILENCER	ROCKWOOD	608
5	1	FLOOR STOP	BUILDERS BRASSWORKS	FI21 X US26D
6	1 1/2	HINGES (PAIR)	MCKINNEY MFG.	TA2714 X 4½ X 4½ X US26D
	1	LOCKSET	SARGENT	28-10G05 X LL X US26D
	1	DOOR CLOSER	LCN CLOSERS	4111 EDA X ALUM X TB X LH
	2	ARMOR PLATE	BUILDERS BRASSWORKS	37" X 1/8" X 34" X US32D
	1	THRESHOLD	NATIONAL GUARD	211 X 36"
	1	KICKDOWN HOLDER	BUILDERS BRASSWORKS	871 X US26D
	3	SILENCERS	BUILDERS BRASSWORKS	WO7
7	1 1/2	HINGES (PAIR)	MCKINNEY MFG.	TA2714 X 4½ X 4½ X US26D X NRP
	1	SURFACE PIVOT	MARKAR PRODUCTS	1923F2C X RH
	1	LOCKSET	SARGENT	28-10G04 X US10
	1	LOCK GUARD	PRECISION HARDWARE	#1625NL X US32D, STAINLESS STEEL
	1	THRESHOLD	NATIONAL GUARD	425 X 48"
	1	DOOR SWEEP	NATIONAL GUARD	200N X 48"
	1 SET	WEATHERSTRIPPING	NATIONAL GUARD	160 X 1 / 48" - 2 / 84"
	1	DRIP CAP	NATIONAL GUARD	16A X 52"
	3	SILENCERS	BUILDERS BRASSWORKS	WO7
	1	DOOR CLOSER	LCN CLOSERS	4111N HOUSH X ALUM X TB X RH
8	1	DOOR CLOSER	LCN CLOSERS	#4041
	1	TOE GUARD	NATIONAL GUARD	142KB X 36"
	2	DOOR PUSH/PULL	YKK	H-1141
	2	HINGE GUARD	YKK	1-LCN #700 (PUSH SIDE) & 1-LCN #750 (PULL SIDE)
	1 1/2	HINGES (PAIR)	YKK	BRONZE (BUTT)
9	1 1/2	HINGES (PAIR)	MCKINNEY MFG.	TA2714 X 4½ X 4½ X US26D
	1	LOCKSET	SARGENT	28-10G04 X US10
	3	SILENCERS	BUILDERS BRASSWORKS	WO7
10	1	HINGES	MCKINNEY MFG.	
	1	LOCKSET	SARGENT	28-10G04-LL X US26D
	1	HINGE STOPS	BUILDERS BRASSWORKS	
	1	DEAD BOLT	SARGENT	485 X US26D
	1	WEATHERSTRIPPING	NATIONAL GUARD	160 X 1 / 48" - 2 / 84"

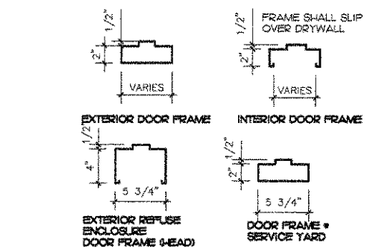
1 DOOR SCHEDULE

NUMBER	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR HWD	FRAME MATERIAL	FRAME HEAD	FRAME JAMB	FRAME SILL	FRAME SIZE	FRAME FINISH	REMARKS
1	3'-0" X 7'-0" X 1-3/4"	6 SIM.	ALUMINUM W/GLASS	RE: STOREFRONT NOTES (A2.1)	SET #8	ALUM. RE: 6A1.3	4A4.1 SIM.	-	-	4 1/2	RE: STOREFRONT NOTES (A2.1)	UNDERCUT DOOR 2" FOR TOE GUARD NO LOCKING DEVICE ON THIS DOOR ADJUST CLOSER TO OPEN 95 DEG. MAX
2	PR. 3'-0" X 7'-0" X 1-3/4"	6	ALUMINUM W/GLASS	RE: STOREFRONT NOTES (A2.1)	SET #1	ALUM. RE: 6A1.3	1A4.1	2A4.1 SIM & 1A4.1	3A1.8	4 1/2	RE: STOREFRONT NOTES (A2.1)	ADJUST CLOSER TO OPEN 95 DEG. MAX PROVIDE APPROVED PANIC DEVICE PER F.M. REQ'MTS
3	PR. 3'-0" X 7'-0" X 1-3/4"	6	ALUMINUM W/GLASS	RE: STOREFRONT NOTES (A2.1)	SET #1	ALUM. RE: 6A1.3	4A4.1	-	-	4 1/2	RE: STOREFRONT NOTES (A2.1)	NO LOCKING DEVICE ON THIS DOOR ADJUST CLOSER TO OPEN 95 DEG. MAX
4	1'-6" X 6'-8" X 1-5/8"	1	S.C. WOOD	PLASTIC LAM. #1	SET #9	HM RE: 4A1.3	7A1.3	8A1.3	-	4 1/2	PAINT #1	ADJUST THICKNESS TO RECEIVE PLASTIC LAMINATE
5	3'-4" X 6'-8"	-	-	-	-	HM RE: 4A1.3	7A1.3 SIM.	8A1.3 SIM.	-	4 1/2	PAINT #1	H.M. CASED OPENING
6	3'-0" X 6'-8" X 1-5/8"	1 (W/ 3/4" UNDERCUT)	S.C. WOOD	PLASTIC LAM. #1	SET #3	HM RE: 4A1.3	7A1.3	8A1.3	-	4 1/2	PAINT #3	ADJUST THICKNESS TO RECEIVE PLASTIC LAMINATE
7	3'-0" X 6'-8" X 1-5/8"	1 (W/ 3/4" UNDERCUT)	S.C. WOOD	PLASTIC LAM. #1	SET #3	HM RE: 4A1.3	7A1.3	8A1.3	-	4 1/2	PAINT #3	ADJUST THICKNESS TO RECEIVE PLASTIC LAMINATE
8	3'-0" X 7'-0" X 1-3/4"	1	H.M.	PAINT #7	SET #7	HM RE: 4A1.3	1A1.8	2A1.8	3A1.8	6 3/4	PAINT #2	
9	4'-0" X 6'-8"	-	-	-	-	-	4A1.1 SIM.	4A1.1 SIM.	-	4 1/2" INSIDE DIMENSION	STAINLESS STEEL	FRAME CONSISTS OF STAINLESS STEEL CHANNEL WRAPPED AROUND JAMB
10	3'-6" X 7'-0" X 1-3/4"	3	H.M.	EXTERIOR PAINT #7 INTERIOR PAINT #6	SET #2	HM RE: 4A1.3	1A1.8 SIM.	10A1.3	3A1.8	6 3/4	EXTERIOR PAINT #7 INTERIOR PAINT #6	
11	FREEZER DOOR	-	-	-	SET #5	-	-	-	-	-	-	SUPPLIED BY FREEZER/COOLER MANUFACTURER
12	COOLER DOOR	-	-	-	SET #5	-	-	-	-	-	-	SUPPLIED BY FREEZER/COOLER MANUFACTURER
13	3'-0" X 6'-8" X 1-3/4"	2	H.M.	PAINT #6	SET #6	HM RE: 4A1.3	7A1.3	8A1.3	-	4 1/2	PAINT #6	
14	3'-0" X 6'-8" X 3/4"	4	ELIASON DOOR	BRUSHED STAINLESS STEEL	SET #5	STAINLESS STEEL	3A1.1 SIM.	3A1.1 SIM.	-	7 1/4" INSIDE DIMENSION	BRUSHED STAINLESS STEEL	FRAME CONSISTS OF STAINLESS STEEL CHANNEL WRAPED AROUND JAMB
15	3'-2" X 1'-10"	-	WOOD	SEE CFX SHOP DRAWINGS	-	-	-	-	-	-	-	BY CABINET MANUFACTURER
16	3'-0" X 7'-0" X 1-3/4"	6	ALUMINUM W/GLASS	RE: STOREFRONT NOTES (A2.1)	SET #1	ALUM. RE: 6A1.3	-	-	-	4 1/2	RE: STOREFRONT NOTES (A2.1)	NO LOCKING DEVICE ON THIS DOOR ADJUST CLOSER TO OPEN 95 DEG. MAX
17	3'-0" X 7'-0" X 1-3/4"	6	ALUMINUM W/GLASS	RE: STOREFRONT NOTES (A2.1)	SET #1	ALUM. RE: 6A1.3	1A4.1 SIM	2A1.4 1A4.1	3A1.8	4 1/2	RE: STOREFRONT NOTES (A2.1)	ADJUST CLOSER TO OPEN 95 DEG. MAX PROVIDE APPROVED PANIC DEVICE PER F.M. REQ'MTS
18	1'-6" X 6'-8" X 1-5/8"	1	S.C. WOOD	PLASTIC LAM. #1	SET #9	HM RE: 4A1.3	7A1.3	8A1.3	-	4 1/2	PAINT #1	ADJUST THICKNESS TO RECEIVE PLASTIC LAMINATE
19	3'-6" X 7'-0" X 1-3/4"	7	H.M.	PAINT #7	SET #4	HM RE: 4A1.3	10A1.9	9A1.9	-	5 3/4	PAINT #2	PROVIDE PERFORATED METAL PLATE, LITES, PANIC HARDWARE ON INSIDE AND KEY ACCESS ON OUTSIDE
20	3'-0" X 7'-0" X 1-3/4"	5	H.M.	PAINT #7	SET #7	HM RE: 4A1.3	11A3.4	12A3.4	-	5 3/4	PAINT #2	LOCATED IN STORAGE ROOM AT REFUSE ENCLOSURE PROVIDE 4" HEAD RE: 4A1.3
21	24" X 36"	1 SIM.	H.M.	PAINT #7	SET #10	HM RE: 4A1.3	3A2.2	4A2.2 SIM	4A2.2	7 3/4	PAINT #2	HM ATTIC ACCESS DOOR
22	24" X 36"	1 SIM.	H.M.	PAINT #7	SET #10	HM RE: 4A1.3	3A2.2	4A2.2 SIM	4A2.2	7 3/4	PAINT #2	HM ATTIC ACCESS DOOR

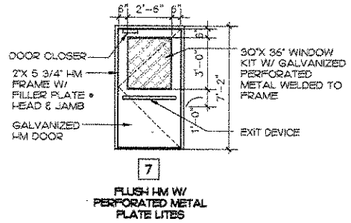


3 DRIVE THRU WINDOW
1/4"=1'-0"

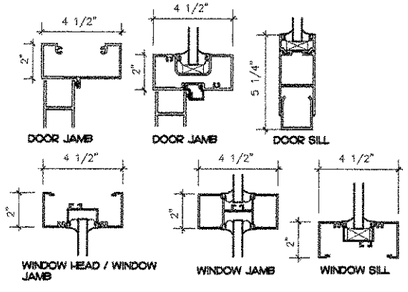




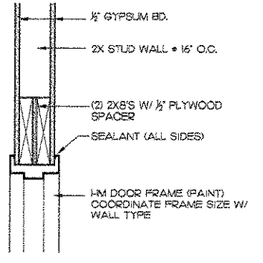
4 H.M. FRAME PROFILES
1 1/2"=1'-0"



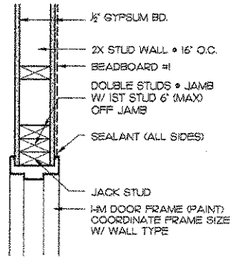
5 DOOR TYPES
1/4"=1'-0"



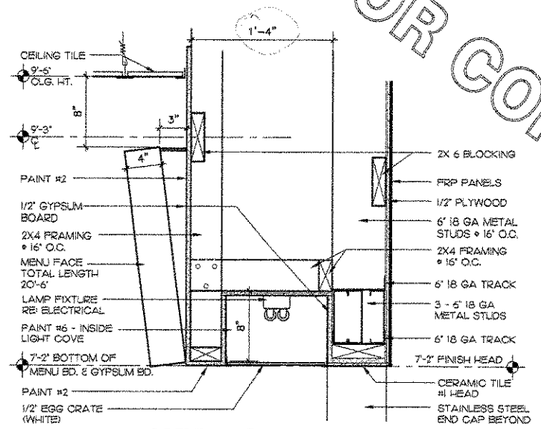
6 STOREFRONT PROFILES
3"=1'-0"



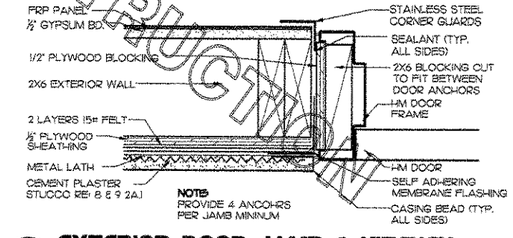
7 TYP. INT. DOOR HEAD
1 1/2"=1'-0"



8 TYP. INT. DOOR JAMB
1 1/2"=1'-0"



9 MENU BOARD LIGHT BOX
1 1/2"= 1'-0"



10 EXTERIOR DOOR JAMB @ KITCHEN
3"=1'-0"

FOR CONSTRUCTION
NOT FOR CONSTRUCTION
FOR CONSTRUCTION

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
1	8/21/06	FIRE DEPT. COMMENTS

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STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
DOOR SCHL DETAILS

DWG EDITION 05.9
REVISION -

Job No. :-----
Store :1976
Date :-----
Drawn By :---
Checked By:---

Sheet
A-1.3

LEGEND

SEAMLESS VINYL FLOORING (SVF)

FLOORING BY PLAYGROUND INSTALLER

SEALED CONCRETE

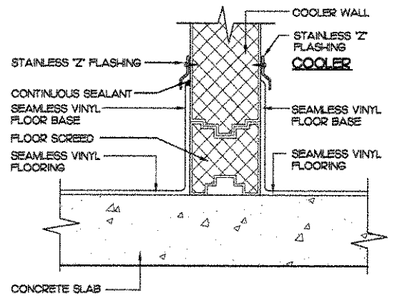
CERAMIC TILE =1 (CT =1)

FD FLOOR DRAIN RE: PLUMBING

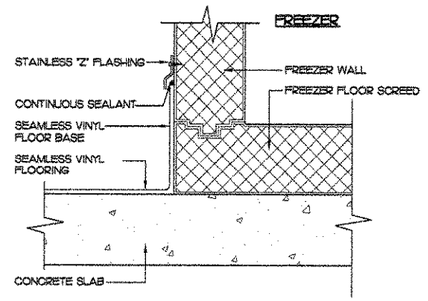
METAL FLOORING BY FREEZER MANUFACTURER

ED EQUIPMENT DRAIN RE: PLUMBING

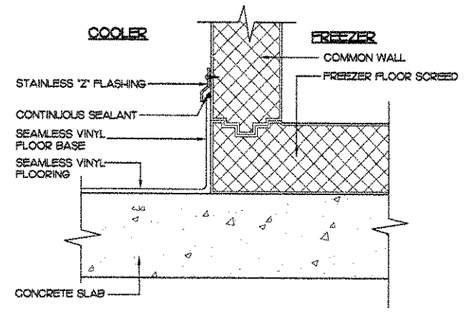
CO CLEAN-OUT RE: PLUMBING



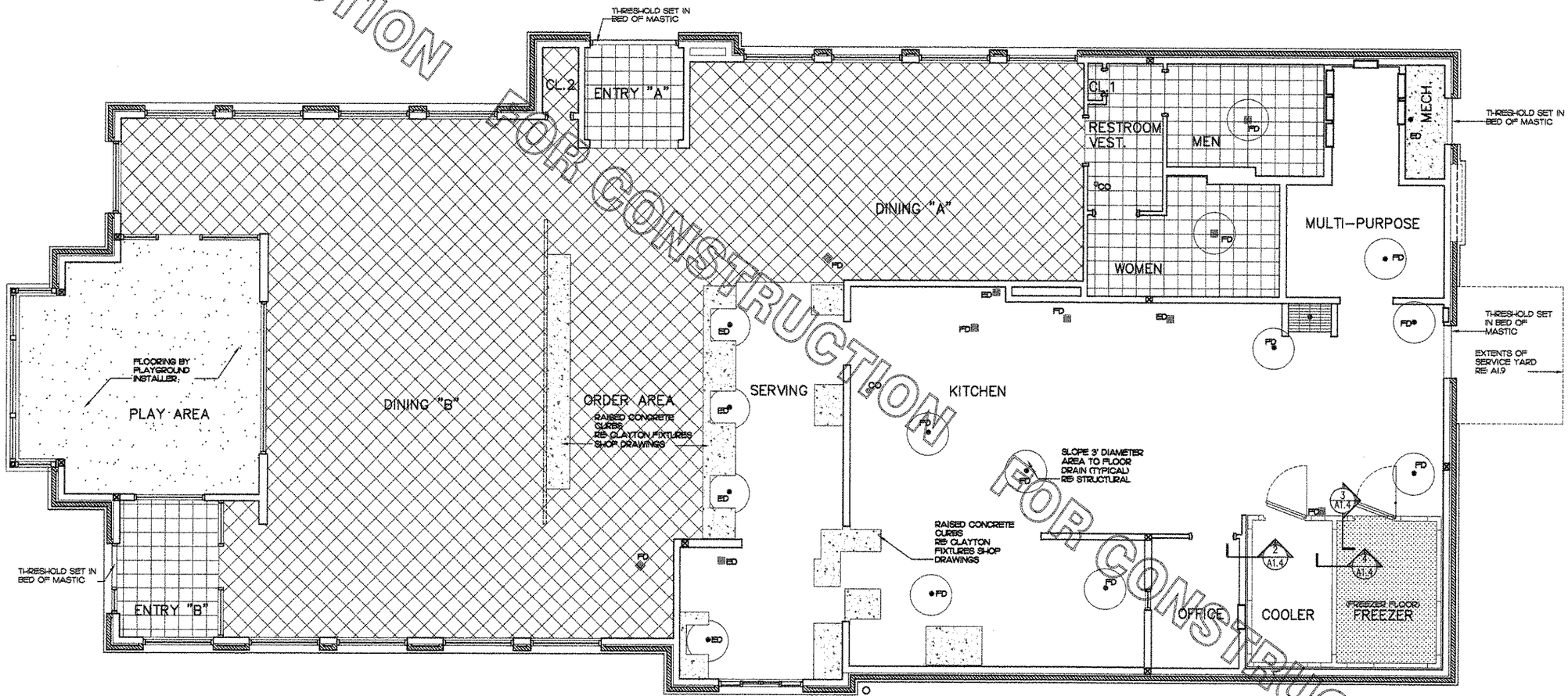
2 DETAIL @ COOLER SCREED
3"=1'-0"



3 DETAIL @ FREEZER SCREED
3"=1'-0"



4 DETAIL @ COOLER/FREEZER
3"=1'-0"



1 FLOOR FINISH PLAN
1/4"= 1'-0"

NOTE:
TILE CONTRACTOR SHALL PULL FLOOR AND WALL TILE FROM MULTIPLE BOXES TO ENSURE TILE/COLOR VARIATION IN PUBLIC AREAS

FOR CONSTRUCTION

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
1		

Mark	Date	By

Mark	Date	By

UC#1

EDWARDS + HUTCHINGS ARCHITECTS, P.C.
THE HORSE BARN AT
MAYWOOD FARMS
205 WARD CIRCLE SUITE 1
BRENTWOOD, TENNESSEE
37027-7593
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FAX: 615/377-0878
E-MAIL: garmull@eandharch.com

eh ARCHITECTS

STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
FLOOR FINISH PLAN

DWG EDITION 05.9
REVISION —

Job No. :-----
Store :1976
Date :-----
Drawn By :---
Checked By:---

Sheet
A-1.4

LEGEND:

LAY-IN CEILING TILE — CEILING TILE #2 / CEILING TILE #1

GYPSUM BOARD

EXTERIOR AWNING

2'X 4' RECESSED FLUORESCENT LIGHT FIXTURE

2'X 2' RECESSED FLUORESCENT LIGHT FIXTURE

EXTERIOR ACCENT LIGHT FIXTURE

2'X 4' RECESSED FLUORESCENT LIGHT FIXTURE IN STORAGE AREA

ADJUSTABLE WALL WASH RECESSED LIGHT FIXTURE

RECESSED CAN LIGHT FIXTURE

TRACK MOUNTED PENDANT ADJUST FIXTURE TO ℄ TABLE

TRACK MOUNTED FLOOD LIGHT

WALL MOUNTED FIXTURE

WALL MOUNTED AWNING FIXTURE 4' STRIP FLUORESCENT

EXIT LIGHT

WALL MOUNTED IX 4 LIGHT FIXTURE

SPEAKER

SUPPLY AIR GRILLE

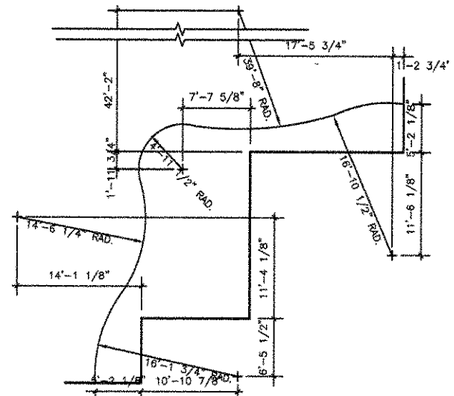
RETURN AIR GRILLE

DRAFTSTOPPING RE: 4A1.5

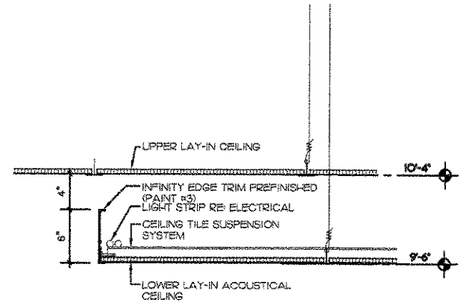
EGG CRATE LIGHT LENSE RE: ELECTRICAL

ELECTRICAL DROP CORDS RE: ELECTRIC

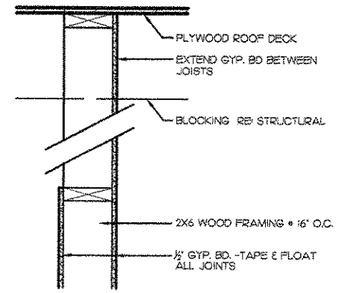
NOTES:
1. REFER TO ELECTRICAL PLANS FOR FIXTURE SPECIFICATIONS.
2. ADJUST EXACT LOCATION OF LIGHT FIXTURES TO CLEAR CEILING GRID AND HVAC GRILLES.
3. IN GYPSUM BOARD CEILINGS, ALIGN FIXTURES AND GRILLES BETWEEN CEILING JOISTS.



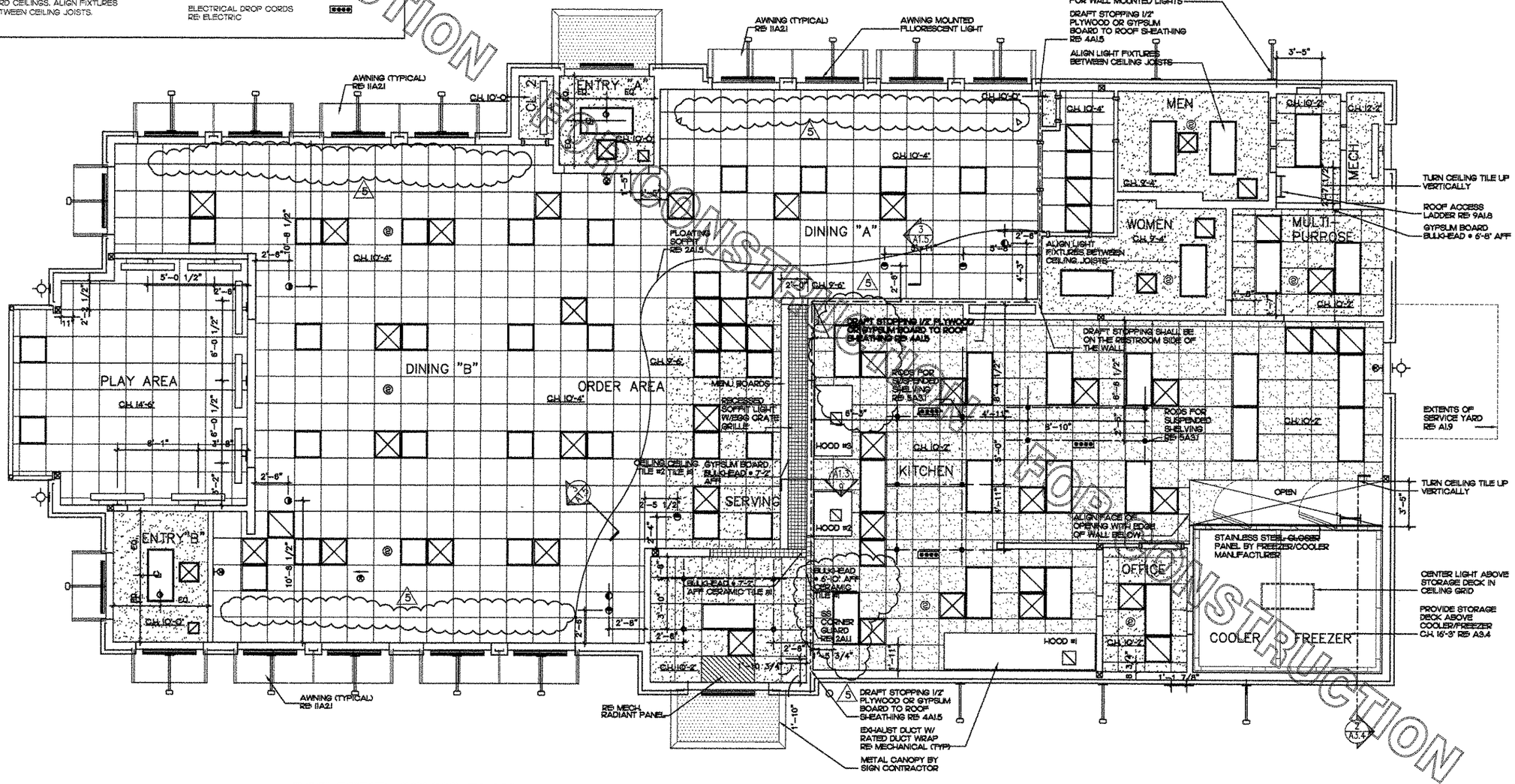
2 FLOATING CEILING DIMENSIONS
1/8"= 1'-0"



3 FLOATING CEILING EDGE DETAIL
1 1/2"= 1'-0"



4 DRAFTSTOPPING DETAIL
1 1/2"= 1'-0"



1 REFLECTED CEILING PLAN
1/4"= 1'-0"

FOR CONSTRUCTION

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
5	3/7/07	rw
	health dept. comments	

Mark	Date	By

Mark	Date	By

EDWARDS + HOTCHKISS ARCHITECTS, P.C.
THE HORSE BARN AT
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STORE
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FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
REFLECTED CEILING PLAN

DWG EDITION 05.9
REVISION —

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Sheet
A-1.5

2. ACCESSIBILITY NOTES

1. ALL CROSS SLOPES THAT ARE A PORTION OF THE ACCESSIBLE ROUTE SHALL BE A MAXIMUM OF 2%.
2. IF UMBRELLAS OR AWNINGS ARE USED ON THE SITE, THE BOTTOM FLAPS SHALL BE A MINIMUM OF 6'-8" ABOVE THE FINISHED GRADE.
3. ACCESSIBLE TABLES SHALL BE A MINIMUM OF 27" CLEAR KNEE SPACE A.F.F., AND HAVE A CLEAR AREA OF AT LEAST 19" DEEP. TOP OF TABLE SHALL BE 34" A.F.F.
4. COAT HOOKS IN THE TOILET STALLS SHALL BE MOUNTED TO THE BACKSIDES OF DOORS AT 48" A.F.F. IN ACCESSIBLE STALLS AND 60" IN STANDARD STALLS.
5. FLUSH VALVES ON THE TOILETS SHALL ALWAYS BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL. UTILIZE 5 LBS. OF FORCE OR LESS TO OPERATE.
6. ALL PANIC HARDWARE SHALL BE MOUNTED NO HIGHER THAN 46" A.F.F.
7. ALL FLOOR DRAINS IN KITCHEN SHALL BE LOCATED OUT OF PATH OF TRAVEL SO THAT THE FLOOR DOES NOT HAVE A SLOPE GREATER THAN 2 % ALONG AN ACCESSIBLE ROUTE.
8. ALL THRESHOLDS, FLOOR LEVEL CHANGES, AND FLOOR TRANSITIONS SHALL NOT EXCEED 1/2" IN HEIGHT AND SHALL BE BEVELED WITH A SLOPE NO GREATER THE 1:2.
9. ALL LIGHT SWITCHES, VOLUME CONTROLS, AND THERMOSTATS IN PUBLIC AREAS SHALL BE MOUNTED NO HIGHER THAN 48" A.F.F. U.N.O.
10. FOR CLARIFICATION OF REQUIREMENTS OR QUESTIONS, CALL THE A.D.A. HOTLINE AT (800) 949-4ADA. CHUCK RICE WITH CHICK-FIL-A, AT (404) 765-8091.

3. LIFE SAFETY NOTES

1. OCCUPANT LOAD SIGN, PROVIDE 2"X 8" BLACK SIGN WITH 1/2" WHITE HELVETICA LETTERS STATING "MAXIMUM OCCUPANT LOAD 115"
2. PROVIDE 3 #10 ABC FIRE EXTINGUISHERS SUITABLE FOR CLASS ABC FIRES USING DRY CHEMICAL. LOCATE AS REQUIRED BY LOCAL AUTHORITIES. PROVIDE 1 #10K RATED FIRE EXTINGUISHER AS REQUIRED IN THE KITCHEN.

4. 2003 IBC SUMMARY/NOTES

1. OCCUPANCY - A2
2. CONTSTRUCTION TYPE - VB
3. ALLOWABLE AREA - 6000 SQ. FT
4. ALLOWABLE HEIGHT - 40'
5. FIRE SEPARATION DISTANCE - XXX
6. OCCUPANT LOAD

DINING AREAS	1397 SQ. FT./15 NET SQ. FT. PERSON	= 93
PLAY AREA	324 SQ. FT./15 NET SQ. FT. PERSON	= 22
KITCHEN	1735 SQ. FT./200 GROSS SQ. FT. PERSON	= 9
ORDER AREA	347 SQ. FT./5 NET SQ. FT. PERSON	= 69
TOTAL		= 193

SEE STATISTICS A1.1 FOR SEAT COUNT

7. REQUIRED WIDTH OF EGRESS - 193 PEOPLE X .2 = 39"
8. WIDTH OF EGRESS PROVIDED:

DOOR #2	= 72"
DOOR #10	= 42"
DOOR #17	= 36"
TOTAL	= 150"

9. PROVIDE FIREBLOCKING IN STUD WALLS, CEILINGS, ROOF LINES AND IN WALLS SO THAT VERTICAL DISTANCE SHALL NOT EXCEED 10'.
10. FIRE BLOCKING SHALL BE 2X NOMINAL LUMBER OR 2 LAYERS OF 3/4" PLYWOOD WITH JOINTS STAGGERED.
11. PROVIDE DRAFTSTOPPING IN ATTIC AS SHOWN ON 1A1.5 AND DETAIL 4A1.5.
12. PROVIDE THERMAL AND SOUND INSULATION WITH FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE DEVELOPMENT INDEX OF NOT MORE THAN 450 AS SPECIFIED ON 5A1.1 NOTES #7 & #10.
13. ROOFING OF CLASS A MATERIALS AS SPECIFIED IN 3A1.7.
14. CLASS A CEILING AS SPECIFIED IN 2A1.2.
15. SPRINKLER SYSTEM NOT REQUIRED PER 903.2.1.2.
16. PROVIDE HOOD SUPPRESSION SYSTEM AS SHOWN ON MECHANICAL DRAWINGS.
17. PROVIDE PORTABLE FIRE EXTINGUISHERS AS SPECIFIED IN 3A1.6 NOTE #2.
18. FIRE ALARM SYSTEM NOT REQUIRED PER 907.2.1.
19. PROVIDE OCCUPANT LOAD SIGN AS SPECIFIED ON 3A1.6 NOTE #1
20. PROVIDE GLASS TYPES AS SHOWN ON 5A1.2 AND WHERE SHOWN ON INTERIOR ELEVATIONS.
21. PROVIDE CANOPIES AS SPECIFIED IN 11A2.1.

5. NFPA 101 2003 - LIFE SAFETY CODE SUMMARY

1. OCCUPANCY - ASSEMBLY
2. CLASSIFICATION OF CONTENTS - ORDINARY
3. MINIMUM CONSTRUCTION REQUIREMENTS - TYPE V (000)
4. OCCUPANT LOAD

DINING AREAS	1397 SQ. FT./15 NET SQ. FT. PERSON	= 93
PLAY AREA	324 SQ. FT./7 NET SQ. FT. PERSON	= 22
KITCHEN	1735 SQ. FT./200 GROSS SQ. FT. PERSON	= 9
ORDER AREA	347 SQ. FT./7 NET SQ. FT. PERSON	= 50
TOTAL		= 174

SEE STATISTICS A1.1 FOR SEAT COUNT

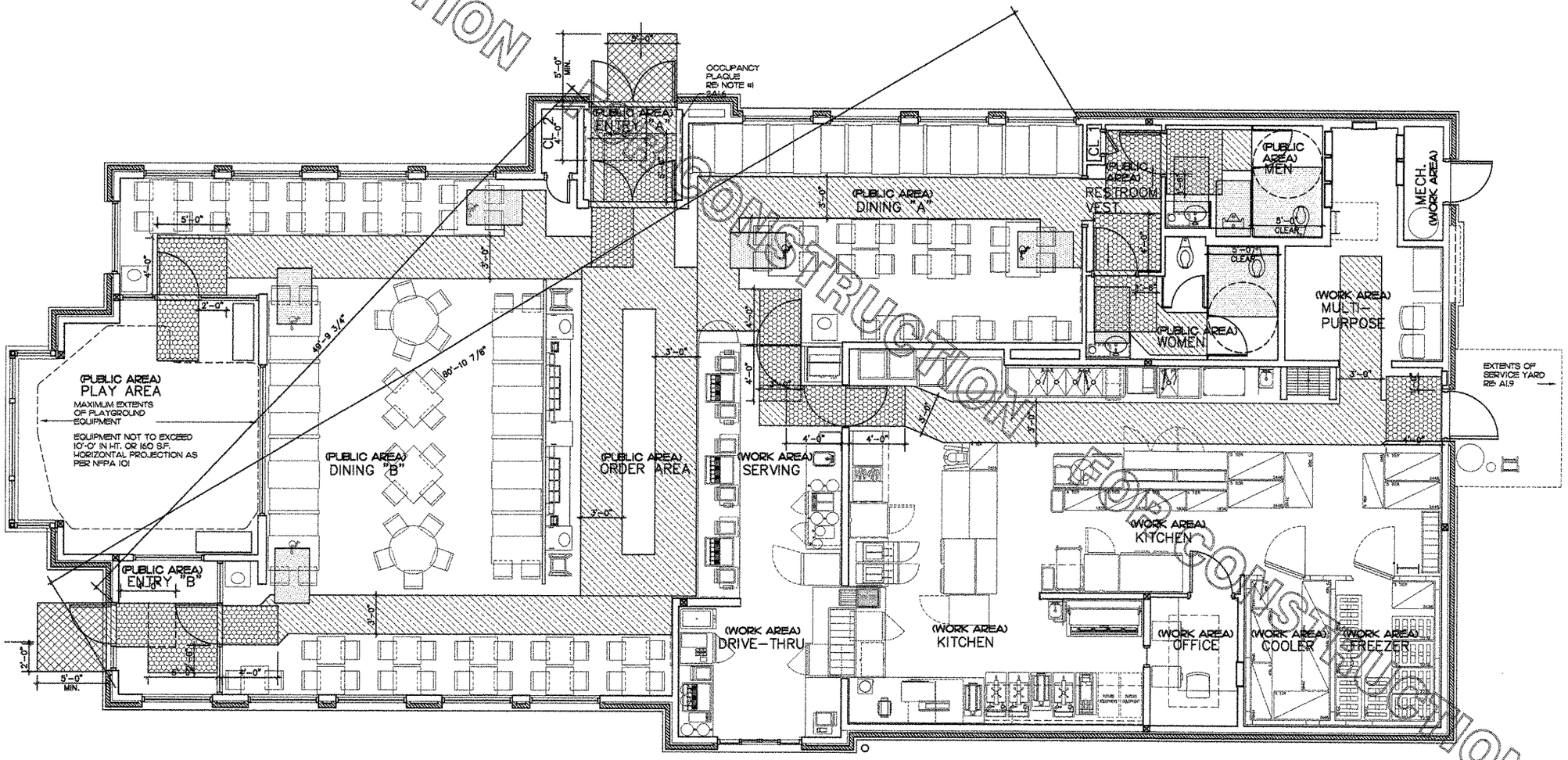
5. REQUIRED WIDTH OF EGRESS - 174 PEOPLE X .2 = 35"
6. WIDTH OF EGRESS PROVIDED:

DOOR #2	= 72"
DOOR #10	= 42"
DOOR #17	= 36"
TOTAL	= 150"

7. COOKING EQUIPMENT SHALL BE IN ACCORDANCE WITH NFPA 96 REF MECHANICAL.
8. PROVIDE MINIMUM OF CLASS "C" FINISHES ON WALLS AND CEILING AS SPECIFIED IN 2A1.2
9. FIRE ALARM SYSTEM NOT REQUIRED PER 12.3.4.
10. SPRINKLER SYSTEM NOT REQUIRED PER 12.3.3.
11. SPECIAL AMUSEMENT BUILDING NOT APPLICABLE PER 12.4.7.1. - HEIGHT LESS THAN 120" AND IS LESS THAN 160" IN AGGREGATE HORIZONTAL PROJECTIONS.
12. PROVIDE HVAC SYSTEM IN ACCORDANCE WITH NFPA 90A - REF MECHANICAL
13. OPENING PROTECTION BETWEEN FOOD PREPARATION AND DINING AREAS NOT REQUIRED PER 12.7.1.3.
14. PROVIDE PORTABLE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10 - AS SPECIFIED IN 3A1.6 NOTE #2

LEGEND

- CLEAR FLOOR SPACE AT FIXTURES
- MANEUVERING CLEARANCE AT DOORS
- 5'-0" CLEAR AND LEVEL SPACE AT DOORS (EXTERIOR) 2% SLOPE OR LESS SLOPE / CROSS SLOPE.
- 36" MINIMUM CLEAR ACCESSIBLE ROUTE
- 30"X48" WHEEL CHAIR SPACE
- 5'-0" TURNING RADIUS
- DOOR APPROACH



1 ACCESSIBILITY FLOOR PLAN
1/4"= 1'-0"

FOR CONSTRUCTION

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

EDWARDS + HOTCHKISS ARCHITECTS, P.C.
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STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
ACCESSIBILITY FLOOR PLAN

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REVISION -

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Sheet
A-1.6

2. GENERAL NOTES:

1. CRICKETS SHALL BE CONSTRUCTED OF RIGID INSULATION AS REQUIRED TO PROVIDE SLOPE OF 1/8" PER FOOT MIN.
2. PAINT ALL EXPOSED GAS PIPING ON ROOF DARK BRONZE (2 COATS).
3. ALL CONDENSATE LINES SHALL BE INSTALLED TO PROVIDE POSITIVE DRAINAGE. GENERAL CONTRACTOR SHALL PROVIDE BLOCKING AS REQUIRED TO ELIMINATE SAGGING.
4. OVERFLOW SCUPPERS SHALL BE 4" HIGH BY 16" WIDE AND SHALL BE INSTALLED WITH THEIR BOTTOM EDGE 2" ABOVE THE BOTTOM EDGE OF THE ROOF SURFACE.

3. MEMBRANE ROOFING SPECIFICATION:

PART 1 GENERAL

1.1 ROOF SYSTEM DESCRIPTION

A. CONTRACTOR SHALL FURNISH AND INSTALL A 40 MIL SINGLE-PLY MEMBRANE ROOFING SYSTEM THAT IS FABRICATED OF A WEFT INSERTED LOW-SHRINK, ANTI-WICKING POLYESTER FABRIC AND HAS A THERMOPLASTIC COATING LAMINATED TO BOTH SIDES AS MANUFACTURED BY DURO-LAST ROOFING, INC.

1. INSULATION: MINIMUM 2" THICK POLYISOCYANURATE INSULATION MECHANICALLY FASTENED.

1.2 QUALITY ASSURANCE

A. GENERAL CONTRACTOR

1. GENERAL CONTRACTOR SHALL CONTACT DURO-LAST ROOFING INC. CONTACT: LINDY BEUTHIN, REGIONAL SALES MANAGER TELE: 1-800-248-0280 EXT. 2110
   FOR A LIST OF AUTHORIZED DURO-LAST INSTALLERS TO BID PROJECT. ANY ROOFING CONTRACTORS NOT APPROVED THROUGH THIS DEPARTMENT WILL BE REJECTED.

B. CONTRACTOR

1. PROVIDE MANUFACTURER'S WRITTEN PROOF THAT CONTRACTOR IS AUTHORIZED TO INSTALL THE DURO-LAST SYSTEM.

1.3 WARRANTY

A. THE GENERAL CONTRACTOR TO PROVIDE A NON-PRORATED 15 YEAR NDL DURO-LAST WARRANTY, COVERING MATERIAL AND WORKMANSHIP.
B. PROVIDE MANUFACTURER'S WRITTEN PROOF THAT CONTRACTOR

C. ROOFING CONTRACTOR TO NOTIFY LINDY BEUTHEN AT DURO-LAST PRIOR TO START OF ROOFING INSTALLATION.
D. ROOFING CONTRACTOR TO PRESENT A COPY OF THE INSPECTION REPORT FROM THE DURO-LAST QUALITY ASSURANCE DEPARTMENT WITH THE WARRANTY.

PART 2 PRODUCTS

2.0 PRODUCT

A. ROOF MEMBRANE

1. MEMBRANE COMPONENTS TO BE PRODUCTS OF DURO-LAST ROOFING, INC. NO SUBSTITUTIONS WILL BE ACCEPTED.
2. A SPECIAL FORMULATED, PERMANENT, THERMOPLASTIC ALLOY, BONDED TO A HIGH TENACITY, LOW SHRINKAGE WEFT INSERTED POLYESTER FABRIC WITH RESISTANCE TO ULTRAVIOLET RAYS, MICROORGANISMS AND IMPERVIOUS TO MOST CAUSTIC CHEMICALS, ANIMAL FATS, GREASES AND OILS TYPICALLY FOUND ON A RESTAURANT ROOF.
3. MEMBRANE SHALL BE FACTORY DIELECTRICALLY WELDED INTO PREFABRICATED SHEETS UP TO 2,500 SQUARE FEET OR AS DETERMINED BY JOB CONDITION.
4. THE NEW ROOFING SHALL BE A PREFABRICATED MECHANICALLY FASTENED INSTALLATION OF SINGLE-PLY REINFORCED MEMBRANE, 40 MILS THICK.
5. FIRE-RESISTANCE-THE ROOFING SYSTEM SHALL MEET UL CLASS A. ALL PACKAGING OF MEMBRANE AND INSULATION SHALL BEAR UL CLASS A LABEL.
6. MEMBRANE COLOR SHALL BE (WHITE, TAN, GRAY) SELECTED FROM MANUFACTURER'S SAMPLES.

B. INSULATION
INSULATION BOARD SHALL BE THE MINIMUM OF 2 INCH POLYISOCYANURATE (2OPSI) 137.8KPA), MECHANICALLY ATTACHED AND APPROVED BY DURO-LAST ROOFING, INC. FOR THE SYSTEM PROPOSED AND ISSUANCE OF THE WARRANTY.

2.0 EXECUTION

A. SUBSTRATE INSPECTION

1. INSPECT ALL SURFACES TO RECEIVE ROOFING FOR ANY CONDITION THAT WILL ADVERSELY AFFECT EXECTUTION, PERFORMANCE, OR QUALITY OF WORK.
2. ALL ROOF SURFACES AND ALL SLOPED SURFACES TO DRAINS AND OUTLETS SHALL BE CHECKED AND APPROVED BY THE ROOFING CONTRACTOR PRIOR TO THE START OF THE ROOFING WORK AS SPECIFIED BY THE MEMBRANE MANUFACTURER.

B. GENERAL REQUIREMENTS

1. PRECAUTIONS
   A. DO NOT LAY OUT OR EXPOSE ANY INSULATION ON THE DECK THAT CANNOT BE COVERED BY MEMBRANE ON THE SAME DAY.
   B. IN MAKING ALL FIELD HEAT WELDS, MAKE SURE ALL EDGES ARE CLEAN AND FREE OF TAR, MASTIC OR OTHER FOREIGN ITEMS.
   C. DO NOT EXPOSE MEMBRANE AND ACCESSORIES TO A CONSTANT TEMPERATURE IN EXCESS OF 110 DEGREES FAHRENHEIT.
   D. SEALANTS AND ADHESIVES SHOULD BE APPLIED ACCORDING TO DURO-LAST, INC.'S SPECIFICATIONS.
   E. START SECURING THE MEMBRANE AT THE HIGHEST POINT AND WORK TOWARDS THE DRAINS.
2. PROTECTION OF ROOFING SURFACES
   STORING, WHEELING, OR TRUCKING DIRECTLY ON ROOF INSULATION OR MEMBRANE SURFACE IS NOT RECOMMENDED. SMOOTH, CLEAN PLYWOOD OR PLANK WALKWAYS, RUNWAYS AND PLATFORMS SHALL BE PROVIDED AS NECESSARY.

C. INSULATION INSTALLATION
THE ROOF INSULATION SHALL BE INSTALLED WITH APPROVED FASTENERS AND DISTRIBUTION PLATES PLACED ACCORDING TO THE MANUFACTURER'S MOST RECENT PUBLISHED SPECIFICATIONS FOR THE USE UNDER THE DURO-LAST ROOFING SYSTEM AND FOR ISSUANCE OF THE WARRANTY.

D. MEMBRANE INSTALLATION
INSTALL THE ROOFING SYSTEM TO DURO-LAST, INC.'S MOST RECENT PUBLISHED SPECIFICATIONS.

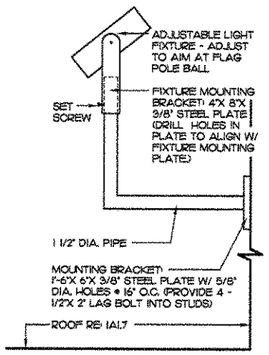
E. INSPECTION AND WARRANTY
AFTER THE INSTALLATION IS COMPLETE, A DURO-LAST QUALITY ASSURANCE SPECIALIST SHALL INSPECT THE VISIBLE DETAILS OF THE ROOFING SYSTEM FOR ACCEPTABILITY FOR WARRANTY ISSUANCE. ANY DEFICIENCIES SHALL BE CORRECTED BY THE CONTRACTOR AND MADE READY FOR REINSPECTION WITHIN FIVE (5) WORKING DAYS. UPON ACCEPTANCE, THE WARRANTY SHALL BE PROMPTLY ISSUED.

3.1 JOB COMPLETION

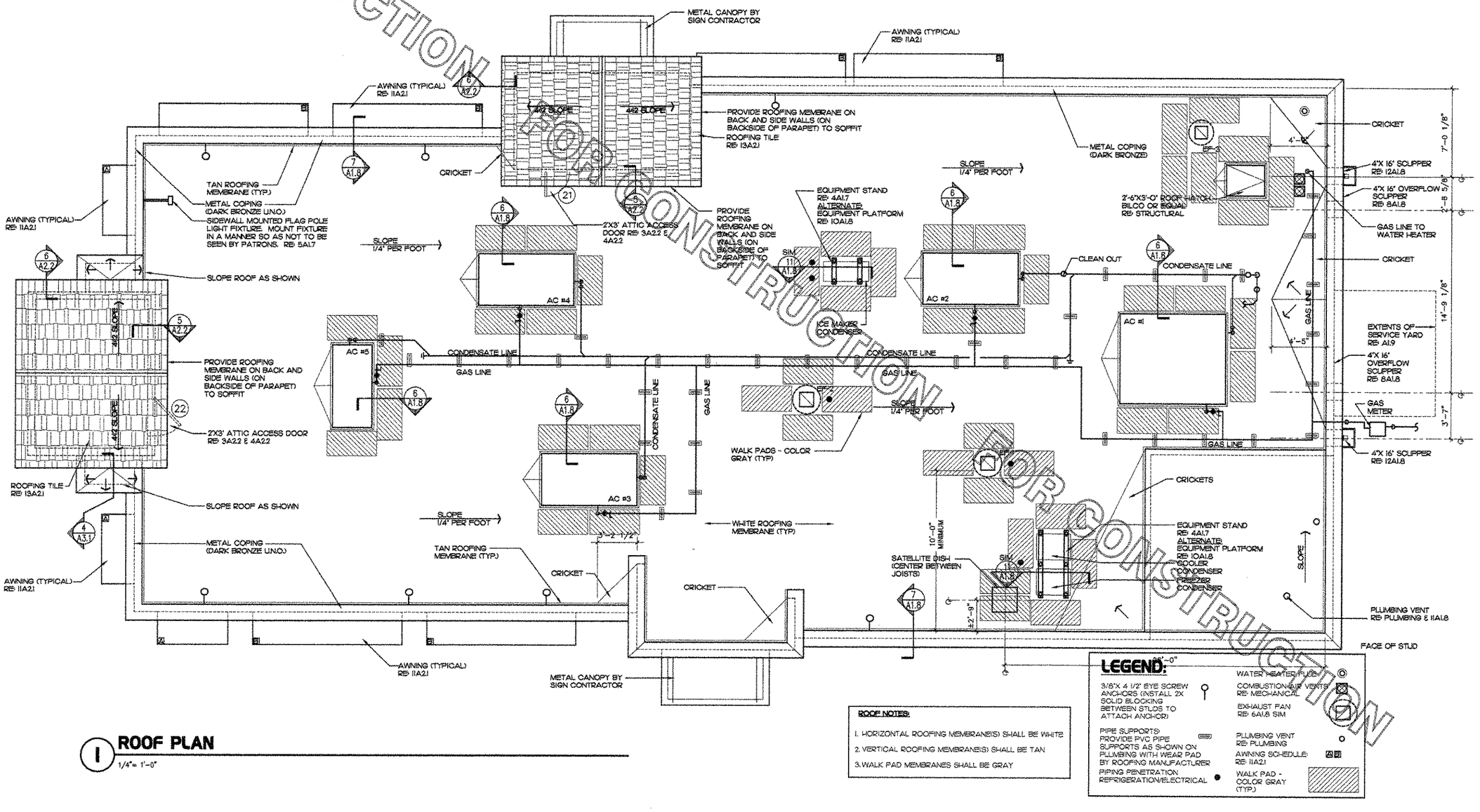
A. INSPECT COMPLETED ROOFING AND CORRECT ALL DEFECTS TO MEET THE SPECIFICATION REQUIREMENTS.
B. MANUFACTURER REPRESENTATIVE SHALL INSPECT THE COMPLETED ROOFING SYSTEM AND NOTIFY THE CONTRACTOR OF ANY DEFECTS IN THE APPLICATION.
C. [illegible]
D. CLEAN UP ALL DEBRIS, EXCESS MATERIALS AND EQUIPMENT AND REMOVE FROM SITE.
   WORKING DAYS FROM RECEIPT OF PUNCH LIST.

4. EQUIPMENT STANDS

1. ALUMINUM EQUIPMENT STAND SUPPORTS AS MANUFACTURED BY AVCOA CORPORATION OF FORT LAUDERDALE, FLA. OR APPROVED EQUAL. STANDS SHALL PROVIDE 18" MINIMUM CLEARANCE AND SHALL BE SIZED AND INSTALLED ACCORDING TO THE MANUFACTURERS LOAD CHARTS AND PRINTED INSTALLATION DETAILS.
   CONTACT: (800) 266-7212



5 **LIGHT FIXTURE DETAIL**
1"=1'-0"



LEGEND:

- 3/8"X 4 1/2" EYE SCREW ANCHORS (INSTALL 2X SOLID BLOCKING BETWEEN STUDS TO ATTACH ANCHOR)
- PIPE SUPPORTS: PROVIDE PVC PIPE SUPPORTS AS SHOWN ON PLUMBING WITH WEAR PAD BY ROOFING MANUFACTURER
- PIPING PENETRATION REFRIGERATION/ELECTRICAL
- WATER HEATER FLUE
- COMBUSTION AIR VENTS REF: MECHANICAL
- EXHAUST FAN REF: 6A1.8 SIM
- PLUMBING VENT REF: PLUMBING
- AWNING SCHEDULE: REF: 11A2.1
- WALK PAD - COLOR GRAY (TYP.)

ROOF NOTES:

1. HORIZONTAL ROOFING MEMBRANE(S) SHALL BE WHITE
2. VERTICAL ROOFING MEMBRANE(S) SHALL BE TAN
3. WALK PAD MEMBRANES SHALL BE GRAY

1 **ROOF PLAN**
1/4"= 1'-0"

FOR CONSTRUCTION

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
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Revisions:

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EDWARDS + HOTCHKISS ARCHITECTS, P.C.
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PHONE: 615/377-5111
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e+h ARCHITECTS

STORE
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SHEET TITLE
ROOF PLAN

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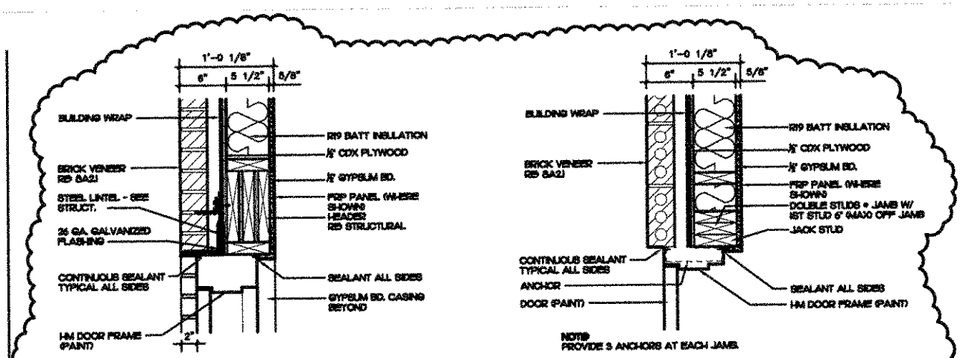
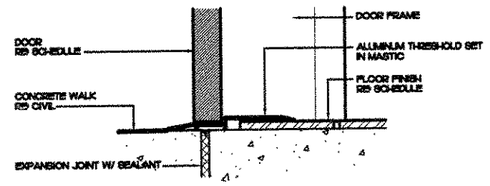


1 TYPICAL EXTERIOR DOOR HEAD

1 1/2"=1'-0"

2 TYPICAL EXTERIOR DOOR JAMB

1 1/2"=1'-0"

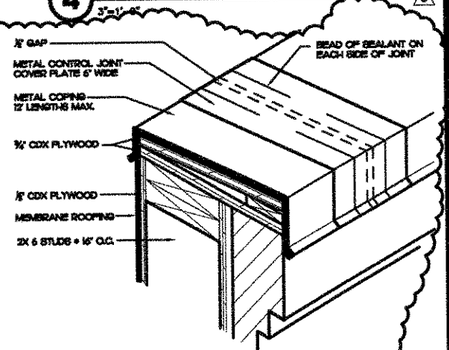


3 TYPICAL EXTERIOR DOOR THRESHOLD

3"=1'-0"

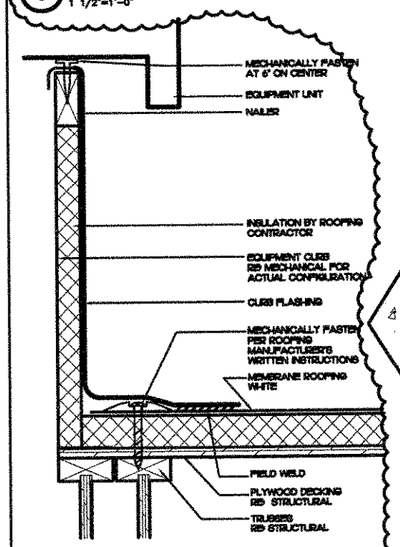
4 TYPICAL WALL BASE

3"=1'-0"



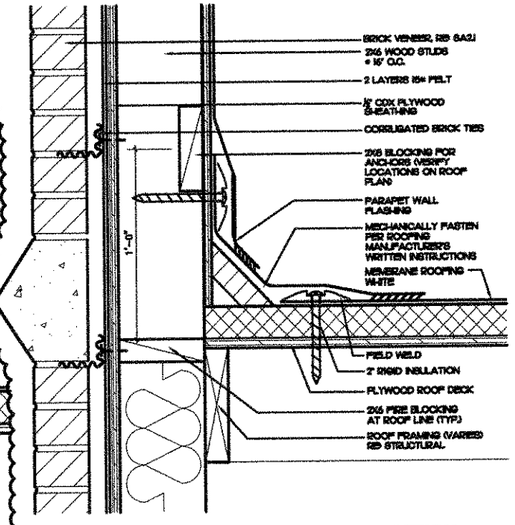
5 COPING JOINT DETAIL

3"=1'-0"



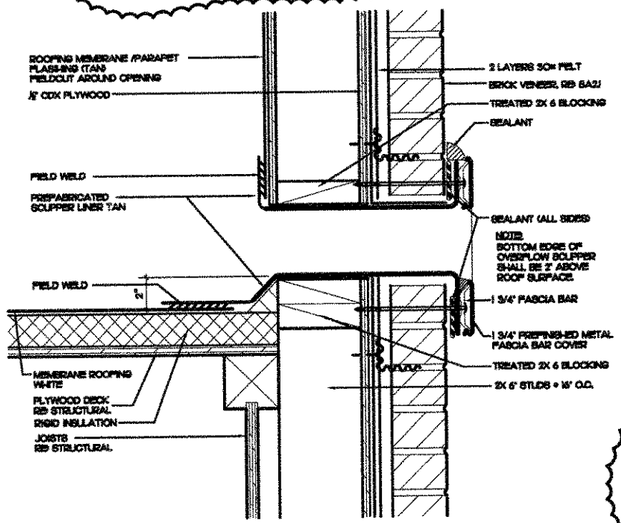
6 TYP. ROOF @ EQUIP. CURB

3"=1'-0"



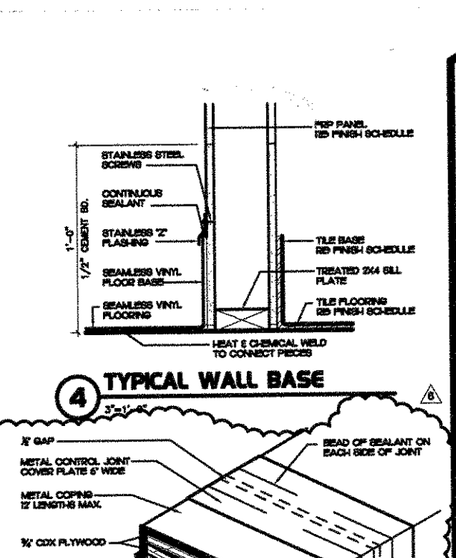
7 TYPICAL ROOF TO WALL SECTION

3"= 1'-0"



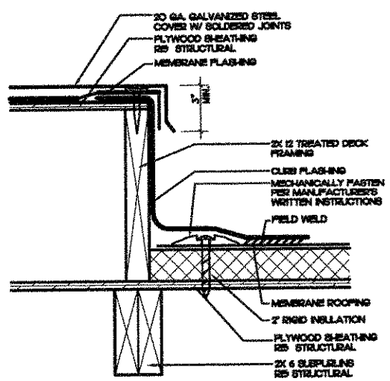
8 OVERFLOW SCUPPER

3"=1'-0"



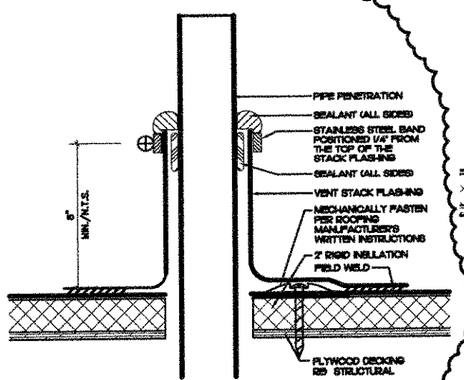
9 LADDER DETAILS

1"=1'-0"



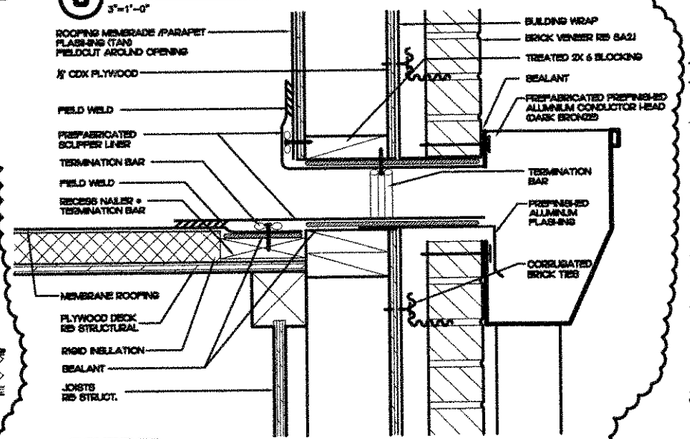
10 EQUIPMENT PLATFORM

3"=1'-0"



11 TYPICAL ROOF PENETRATION DETAIL

3"=1'-0"



12 SCUPPER

3"=1'-0"

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

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detail clarification per owner		
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STATE OF MISSOURI
JAMES R. PAUL
NUMBER A-6938
REGISTERED ARCHITECT
JUNE 29, 2006

THE HORSE BARN AT MARYLAND FARMS
218 WARD CIRCLE, SUITE 1
BRENTWOOD, TENNESSEE
PHONE: 615/377-3311
FAX: 615/377-0978
E-MAIL: gsimc@bellsouth.net

eh ARCHITECTS

STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
DETAILS

DWG EDITION 05.9
REVISION —

Job No. :
Store : 1978
Date :
Drawn By :
Checked By:

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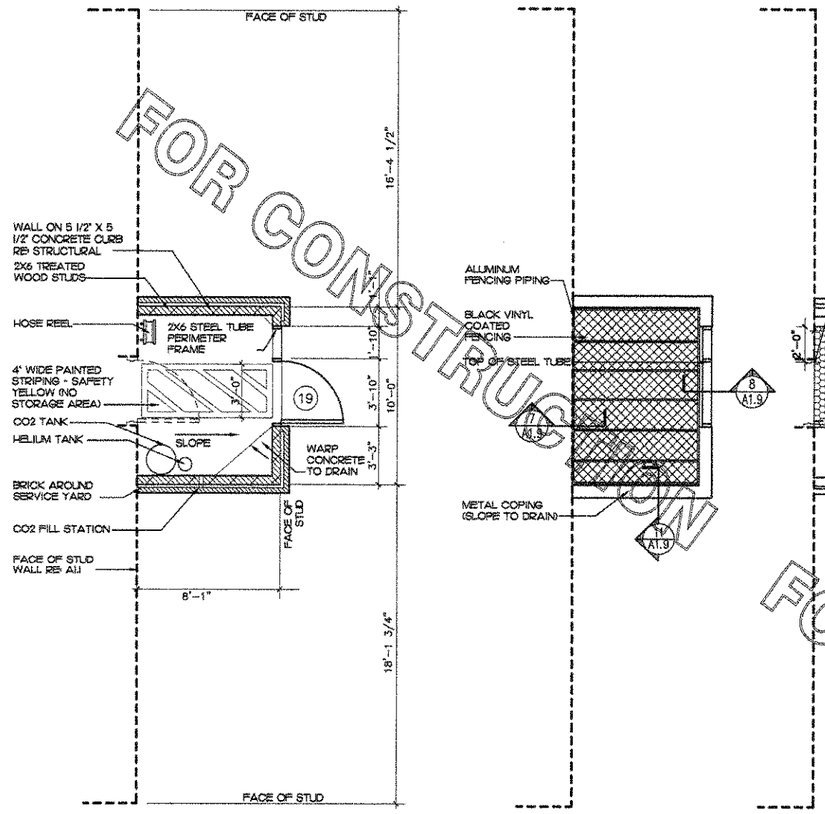
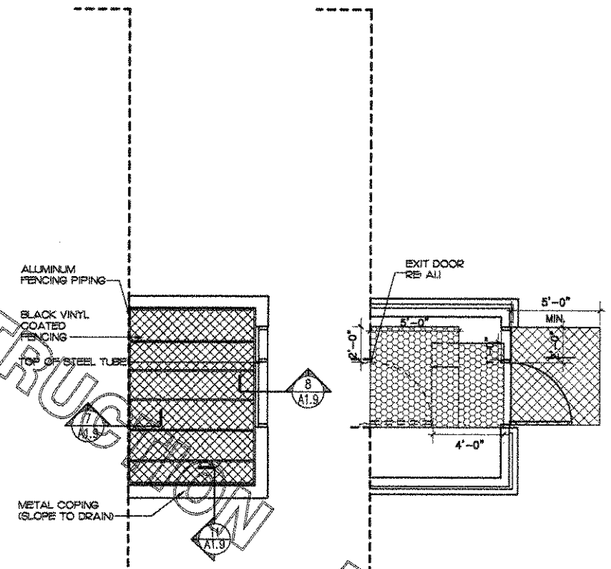
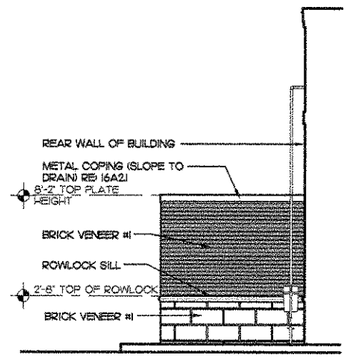


1 FLOOR PLAN
1/4"= 1'-0"

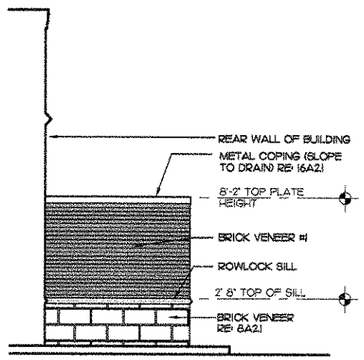


2 ROOF / CEILING PLAN
1/4"= 1'-0"

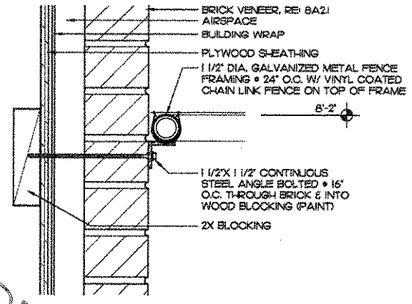
3 ACCESSIBILITY PLAN
1/4"= 1'-0"



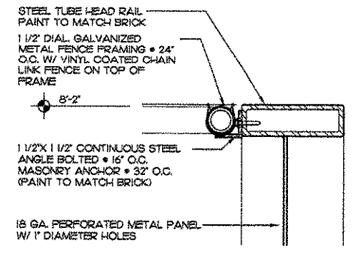
5 ELEVATION
1/4"= 1'-0"



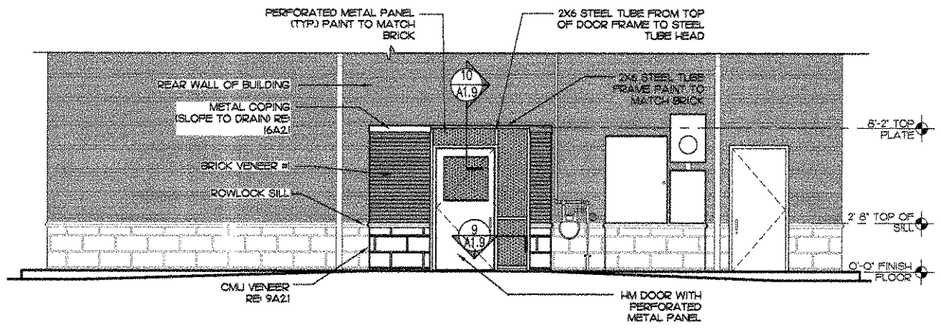
6 ELEVATION
1/4"= 1'-0"



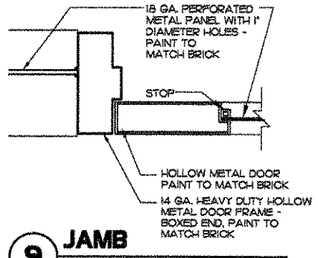
7 FENCE AT REAR BUILDING WALL
3"=1'-0"



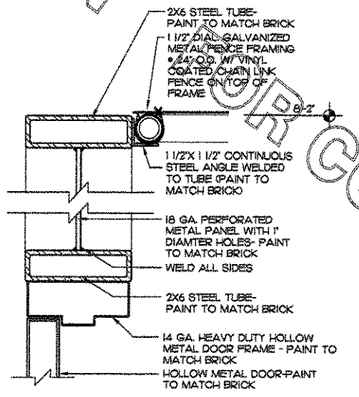
8 FENCE AT SERVICE YARD
3"=1'-0"



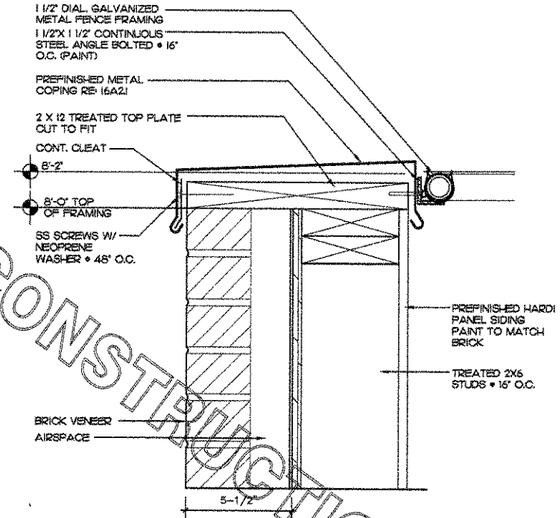
4 ELEVATION
1/4"= 1'-0"



9 JAMB
3"=1'-0"



10 HEAD
3"=1'-0"



11 ROOF EDGE DETAIL
3"=1'-0"

FOR CONSTRUCTION
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Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

EDWARDS + HOTCHKISS ARCHITECTS, P.C.
THE HORSE BARN AT
LEIPERS CREEK
104 WILKINS DRIVE, SUITE 1
BRENTWOOD, TENNESSEE
37027-7593
PHONE: 615/377-3111
FAX: 615/377-0878
E-MAIL: getmail@eharch.com
WEB: www.eharch.com
eh ARCHITECTS

STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
SERVICE YARD

DWG EDITION 05.9
REVISION –

Job No. :-----
Store :1976
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Drawn By :-----
Checked By:-----

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5. GENERAL NOTES:

1. REFER TO CIVIL DRAWINGS FOR FINISH GRADES AND LOCATION OF WALKS.
2. PROVIDE BLOCKING FOR ALL EXTERIOR WALL MOUNTED LIGHT FIXTURES, AWNINGS & SIGNS AS REQUIRED.
3. PAINT ALL WOOD AND METALS EXPOSED TO THE EXTERIOR.

6. DRIVE - THRU WINDOW:

QUIKSERV FULLY AUTOMATIC BIFRATING MODEL
BP-7248E - BLACK FINISH (MATTE)
CONTACT: JACKIE SLIGH • (800) 366-8307

7. STOREFRONT NOTES:

ALL STOREFRONT TO HAVE 1/4" RADIUSED SILL ON INSIDE FRAME
TO OBTAIN A LIST OF QUALIFIED GLAZING CONTRACTORS CONTACT:
CFA CONSTRUCTION MANAGER
SUPPLIER:
YKK- ANNETTE STOLAR
7680 THE BLUFFS, STE. 100
AUSTELL, GA 30168
1-678-838-6000
1-678-838-6045 (DIRECT)
EMAIL: ANNETTESTOLAR@YKK-AP.COM

STOREFRONT COLOR TO BE BLACK

8. BRICK SPECIFICATIONS:

BRICK #1: MEDIUM IRONSPOT BY ENDICOTT CLAY PRODUCTS, UTILITY SIZE

BRICK #2: SHADOW GREY #165 BY ACME BRICK CO. UTILITY SIZE

SUPPLIER:
RICHARDS BRICK CO.
PHONE: 314-291-3200
ATTN: DON EDRESS

9. CMU:

CMU #1: CHISEL FACE MASONRY UNIT BY ARRISCRAFT, HAND CHISELED, WHITE INTEGRAL COLOR

SUPPLIER:
MIDWEST BLOCK
PHONE: 314-291-3200
ATTN: LES STAGGEMEIER

10. NOT USED:

11. AWNING:

FLAT SEAMLESS PREFINISHED ALUMINUM AWNING COLOR - CARDINAL RED WITH APPLIED VINYL STRIPES BY SIGN MANUFACTURER. STRIPES TO BE 3M VINYL COLORS - "TAN" (7725-39) & "BURGUNDY" (7725-58).

SECURE AWNING BRACKET TO 2X6 BLOCKING WITH 3/8" LAG BOLTS (2 TOP AND 2 BOTTOM OF EACH BRACKET) AND NEOPRENE WASHER. LIGHT FIXTURE IS INSTALLED ON 3" WIDE BRACKET AFFIXED TO AWNING FRAME. MOUNT PERFORATED SCREEN BELOW LIGHT FIXTURE WITH 1/2" BOLTS TO WELDED NUTS ON FRAME.

AWNING SCHEDULE:
A 5'-4" LONG
B 11'-10" LONG

12. HARDI SOFFITS:

NON-COMBUSTIBLE FIBER-CEMENT PANELS AS MANUFACTURED BY JAMES HARDI BUILDING PRODUCTS INC.. PANELS SHALL BE SECURED WITH STAINLESS STEEL FASTENERS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

PAINT TO MATCH SHERWIN WILLIAMS SW7005 PURE WHITE

13. ROOFING TILES:

CONCRETE ROOF TILES BY MONIER LIFETILE (NO SUBSTITUTIONS)- SAXONY SHAKE STANDARD WEIGHT. COLOR TO BE SHAKE HICKORY BLEND OR EQUAL. INSTALL ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
CONTACT:
MONIER LIFE TILE - WHATLEY BUSH
4555 MANSELL RD. SUITE 300
ALPHARETTA, GA 30022
TELE: 404-661-4700
FAX: 404-585-8933
EMAIL: WBUSH@MONIERLIFETILE.COM

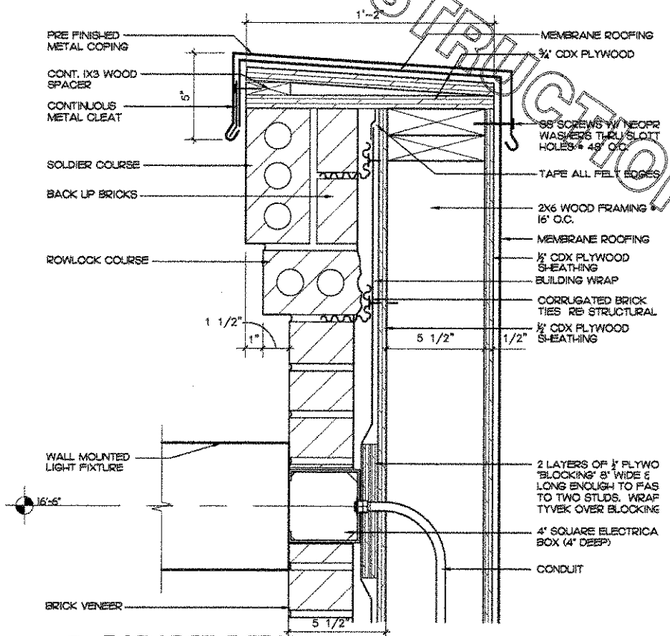
14. SELF ADHERING MEMBRANE FLASHING:

20-25 MIL "WINDOW FLASHING TAPE" CONSISTING OF A SELF ADHESIVE BUTYL RUBBER MATERIAL INTERGRATED ON ONE SIDE WITH A UV RESISTANT POLYETHELENE FILM AND AN AGGRESSIVE BUTYL ON THE REVERSE SIDE.
CAUTION: VERIFY COMPATIBILITY OF SEALANTS WITH FLASHING TAPE

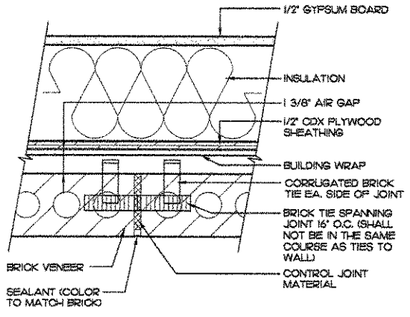
15. TRACK LADDER

PREFINISHED STEEL LADDER AND HANDRAILS AND 5"X 14" ABRASIVE TREADS. PROVIDE BOTTOM WHEEL BRAKE MOUNT TO 1' PREFINISHED SLOTTED STEEL PIPE TRACK SECURED TO STRUCTURE W/MANUFACTURER SUPPLIED MOUNTING BRACKETS • 24" O.C.

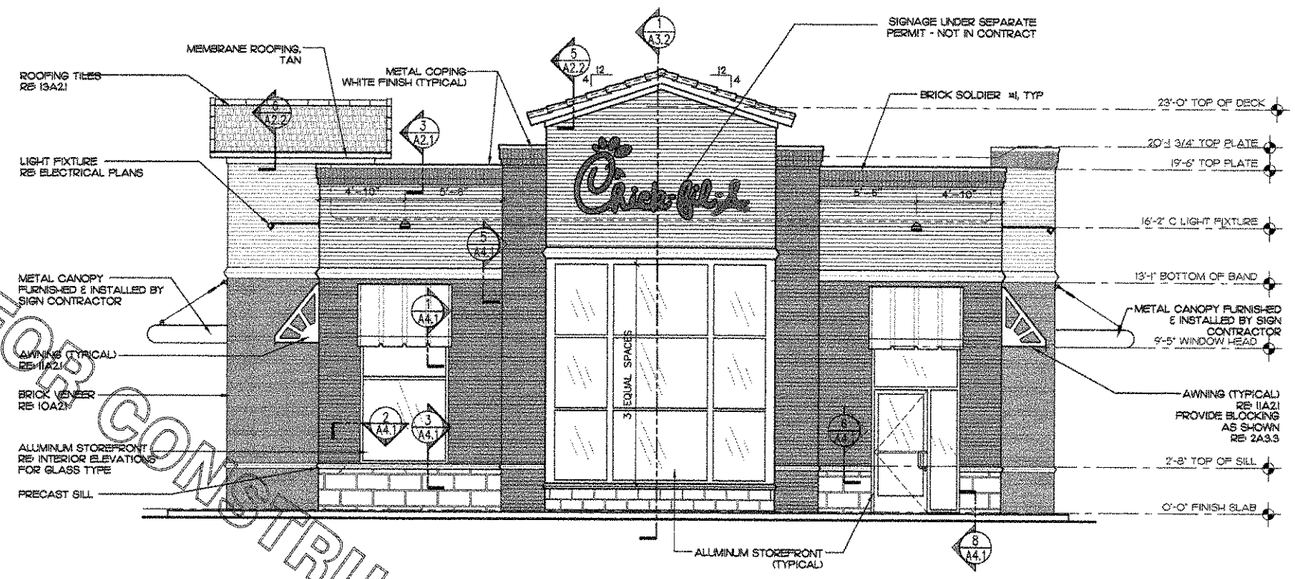
AS MANUFACTURED BY COTTERMAN - MODEL 7180
(800) 552-3397



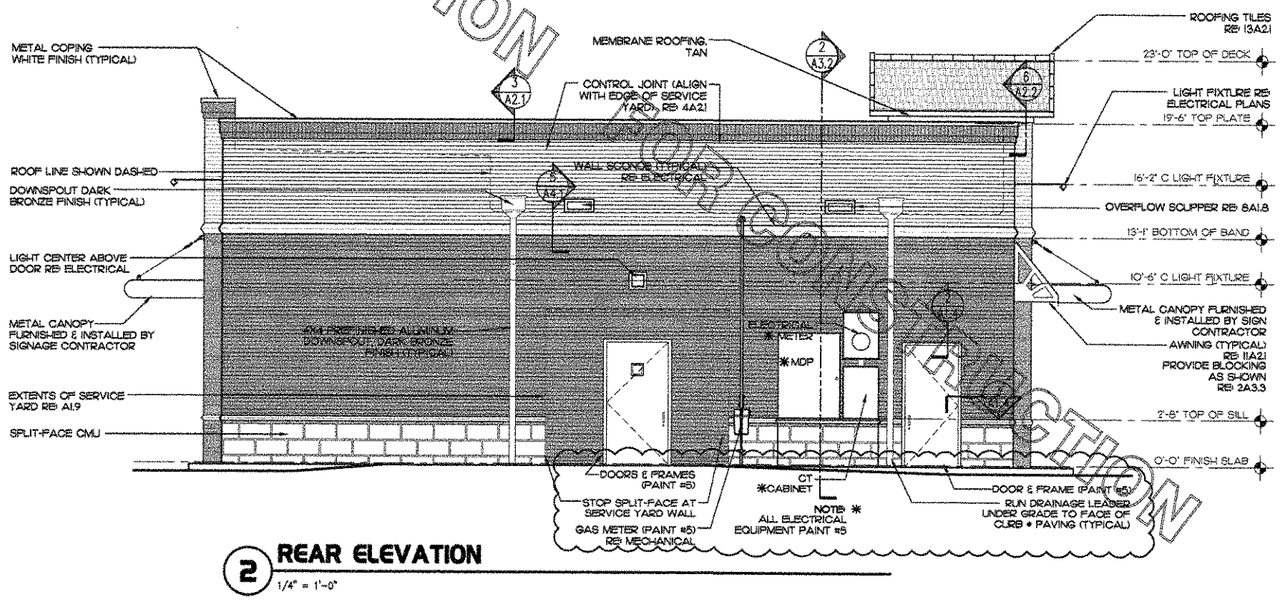
3 PARAPET DETAIL
3"= 1'-0"



4 BRICK CONTROL JOINT
3"= 1'-0"



1 FRONT ELEVATION
1/4" = 1'-0"



2 REAR ELEVATION
1/4" = 1'-0"

FOR CONSTRUCTION

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

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EDWARDS • HOTOKSEN ARCHITECTS, P.C.
THE HORSE BARN AT
MARTLAND FARMS
5918 MARTLAND FARMS SUITE 1
BRENTWOOD, TENNESSEE
37027-7583
PHONE: 615/377-3111
FAX: 615/377-0978
E-MAIL: gerrin@eandharch.com

eh ARCHITECTS

STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
EXTERIOR ELEVATIONS

DWG EDITION 05.9
REVISION —

Job No. :
Store : 1976
Date :
Drawn By :
Checked By:

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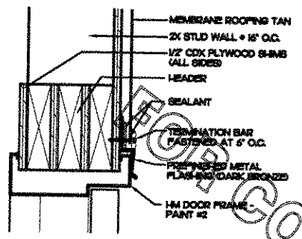
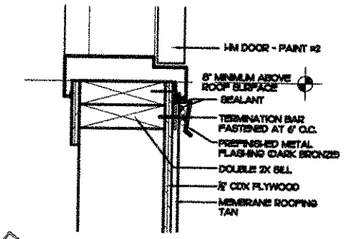
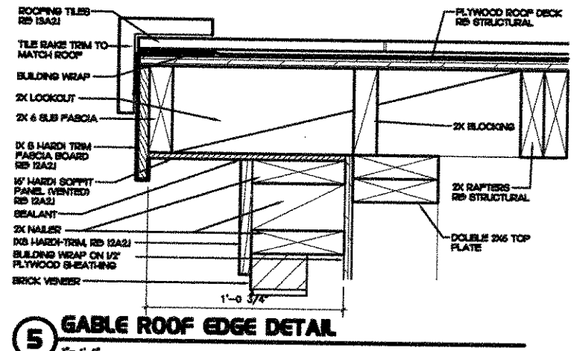


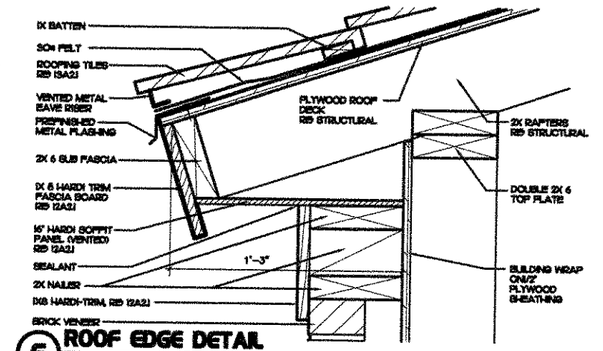
3 HEAD @ ATTIC ACCESS DOOR
3" = 1'-0"



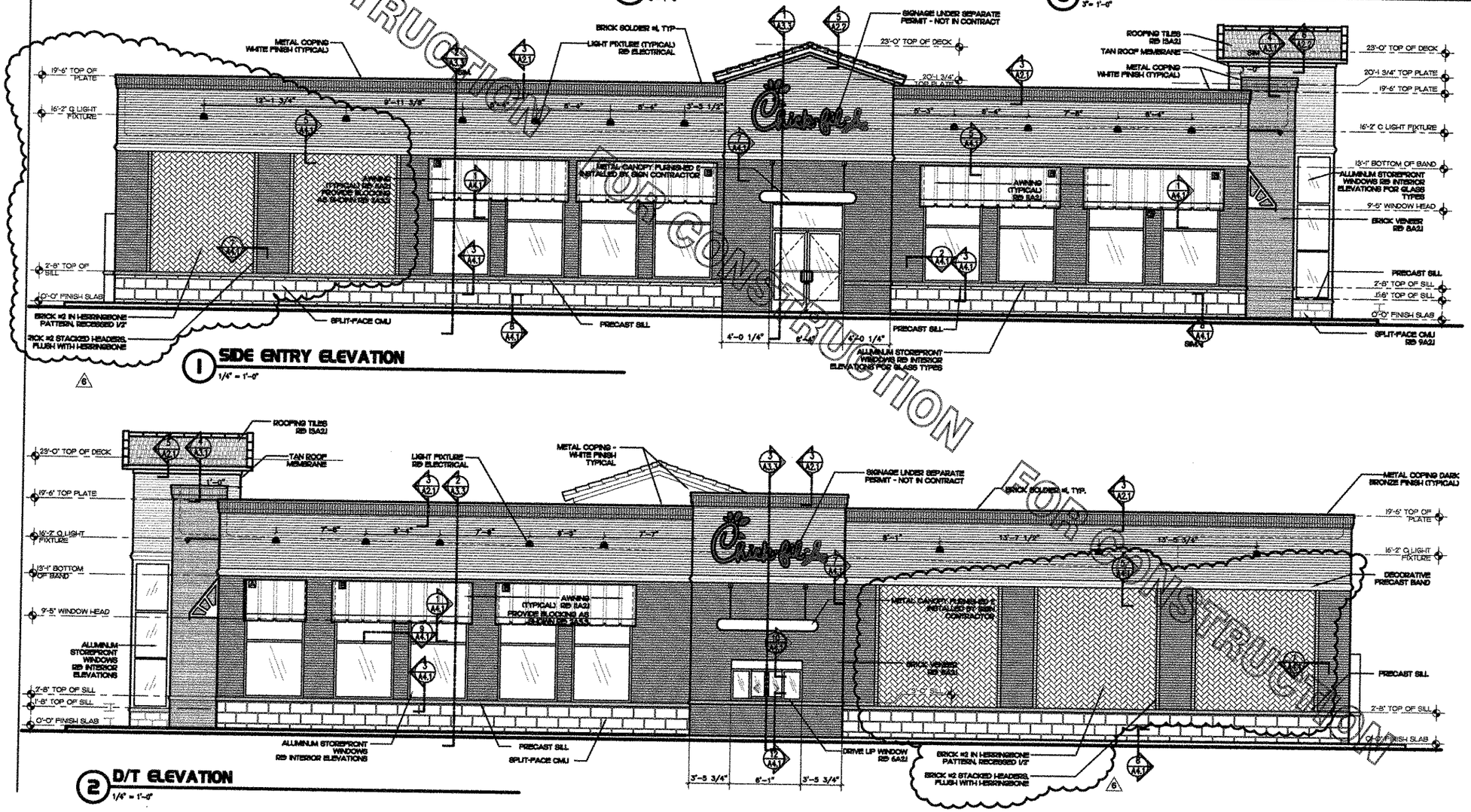
4 SILL @ ATTIC ACCESS DOOR
3" = 1'-0"



5 GABLE ROOF EDGE DETAIL
3" = 1'-0"



6 ROOF EDGE DETAIL
3" = 1'-0"



1 SIDE ENTRY ELEVATION
1/4" = 1'-0"

2 D/T ELEVATION
1/4" = 1'-0"

FOR CONSTRUCTION

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

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detail clarification per owner		

Mark	Date	By

THE HORSE BARN AT MARYLAND FARMS
10180 MARYLAND FARMS BOULEVARD, SUITE 1
BRENTWOOD, TENNESSEE 37027-7583
PHONE: 615/377-3111
FAX: 615/377-0979
E-MAIL: gsmcdonald@ehbrinch.com

eh ARCHITECTS

STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
EXTERIOR ELEVATIONS

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REVISION —

Job No. :
Store : 1978
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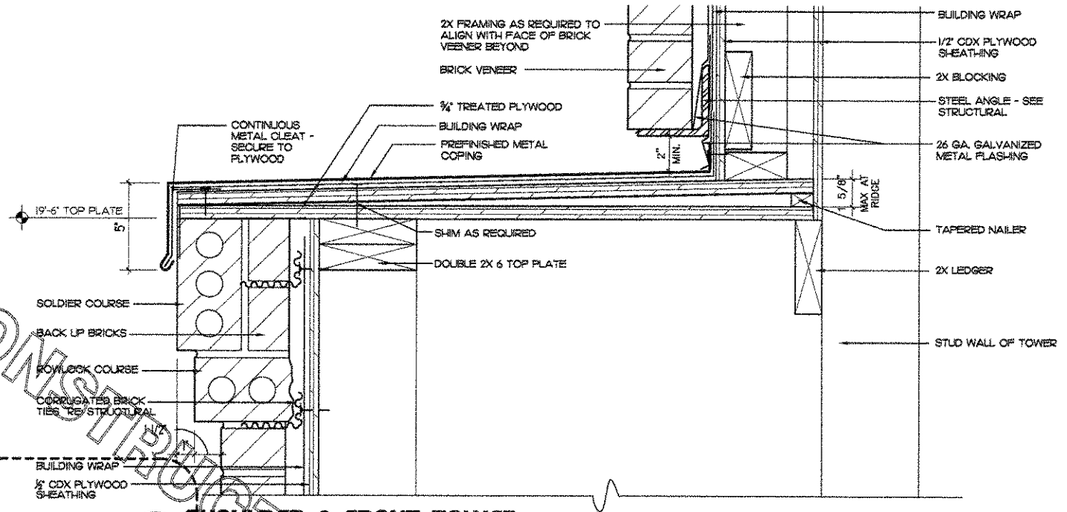
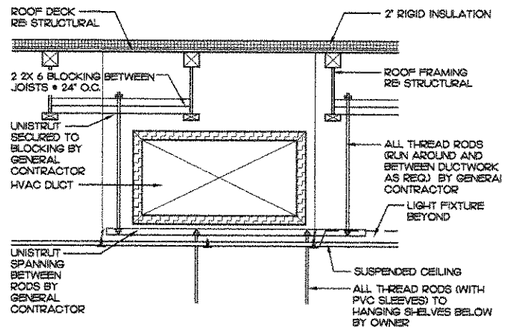


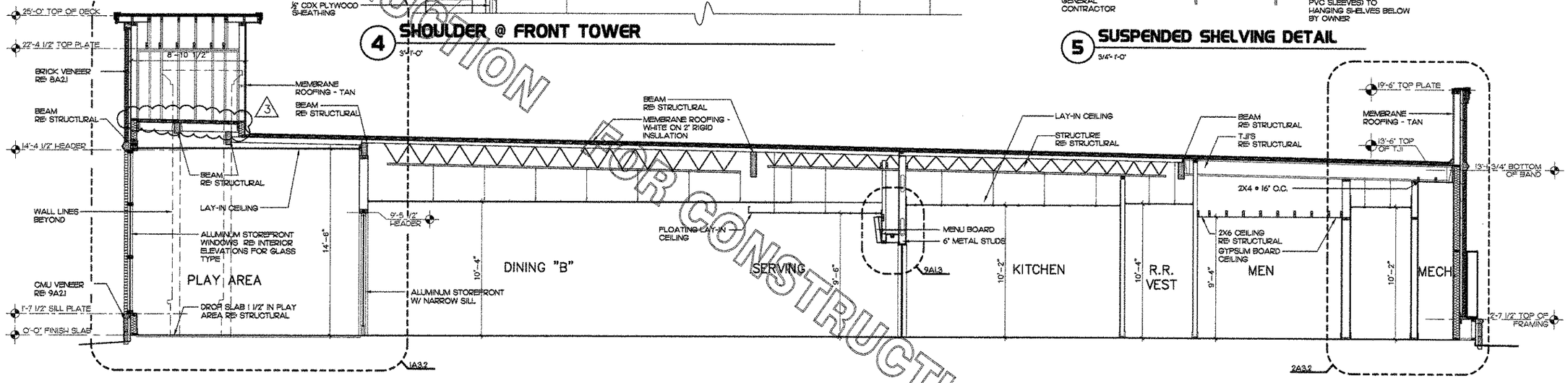
4 SHOULDER @ FRONT TOWER

3" = 1'-0"



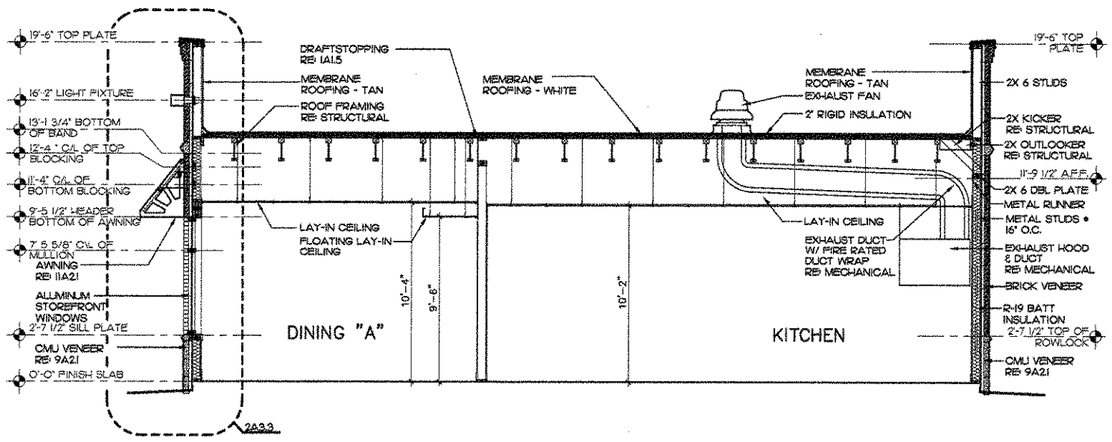
5 SUSPENDED SHELVING DETAIL

3/4" = 1'-0"



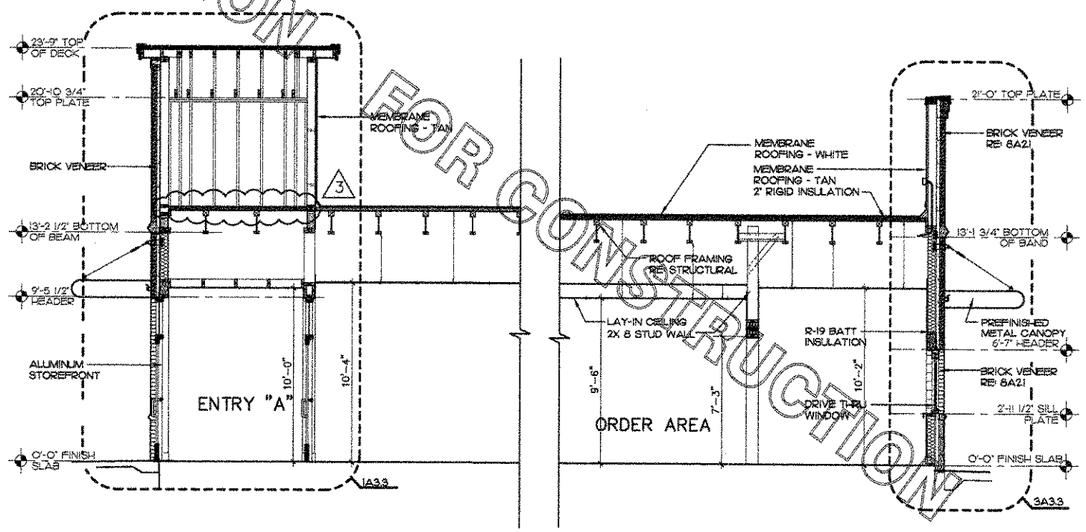
1 LONGITUDINAL SECTION

1/4" = 1'-0"



2 TRANSVERSE SECTION

1/4" = 1'-0"



3 ENTRY SECTION

1/4" = 1'-0"

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Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

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Mark	Date	By

EDWARDS • HOTCHKISS ARCHITECTS, P.C.
THE HORSE BARN AT
MAYWOOD FARMS
769 WARD CIRCLE, SUITE 1
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37027-7583
PHONE: 615/377-3111
FAX: 615/377-0978
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eh ARCHITECTS

STORE
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FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
BUILDING SECTIONS

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Job No. :
Store :1976
Date :
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Checked By:

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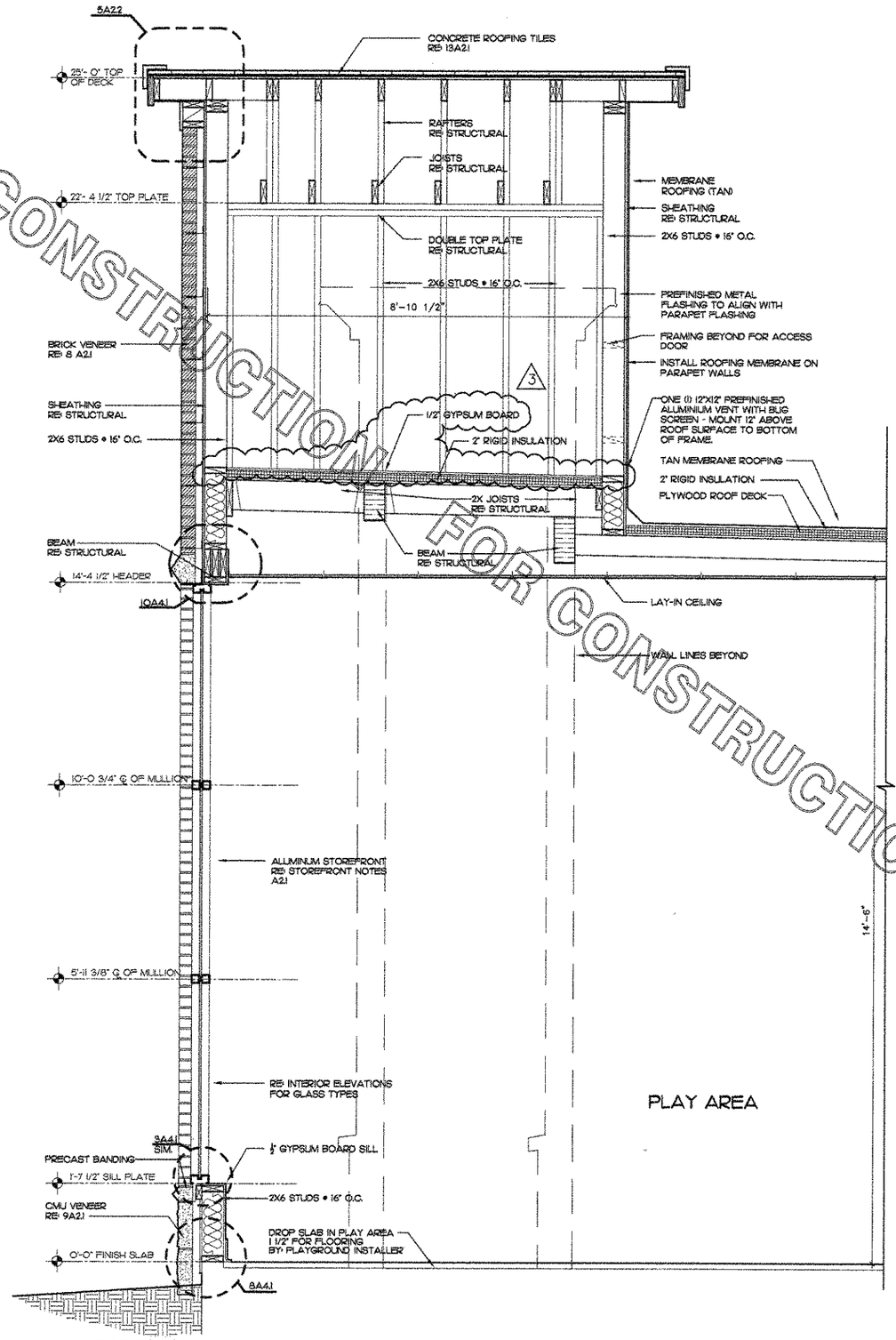
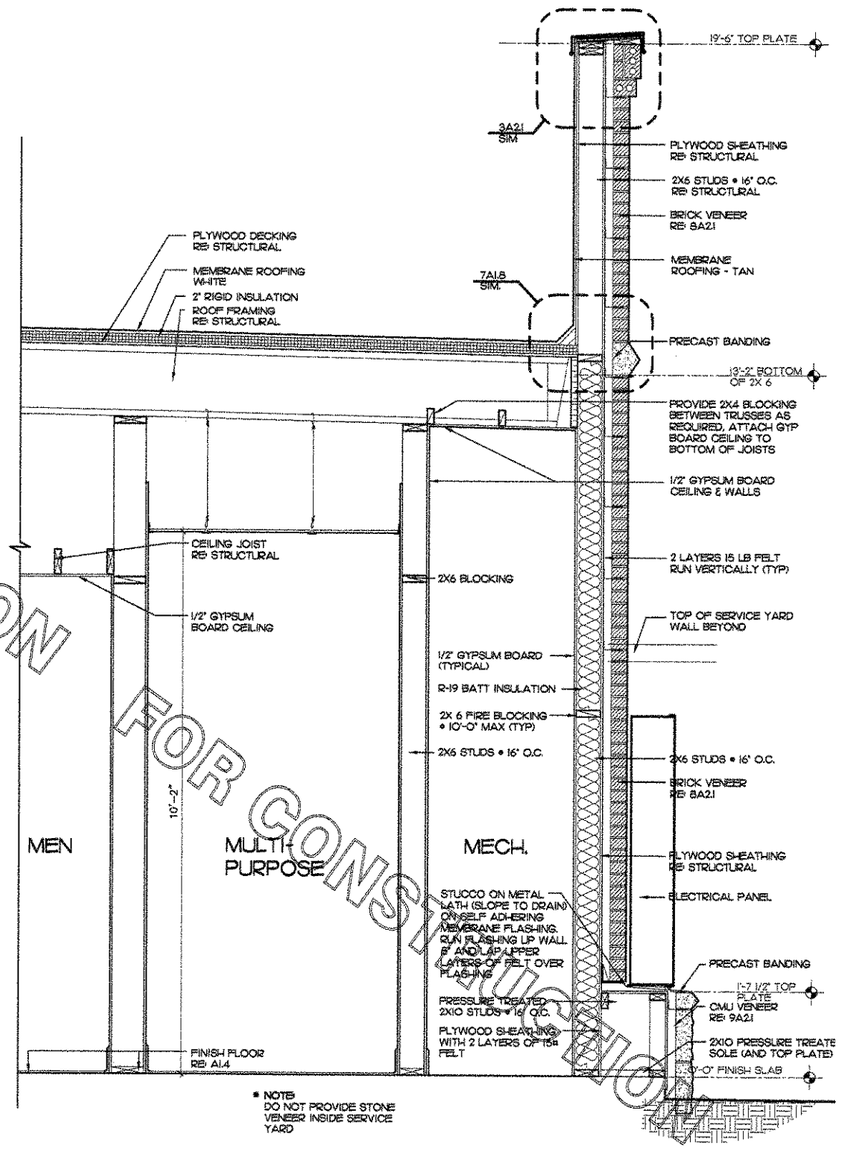
A-3.1



1 SECTION THROUGH PLAY AREA

3/4"= 1'-0"



2 WALL SECTION AT REAR WALL

3/4"= 1'-0"

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5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

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fire department comments

Mark	Date	By

EDWARDS + HOTCHKISS ARCHITECTS, P.C.
THE HORSE BARN AT WARNER PARKS
219 WARD CIRCLE SUITE 1
BRENTWOOD, TENNESSEE 37027-7593
PHONE: 615/377-3111
FAX: 615/377-0878
E-MAIL: geomail@eandharch.com

STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
WALL SECTIONS

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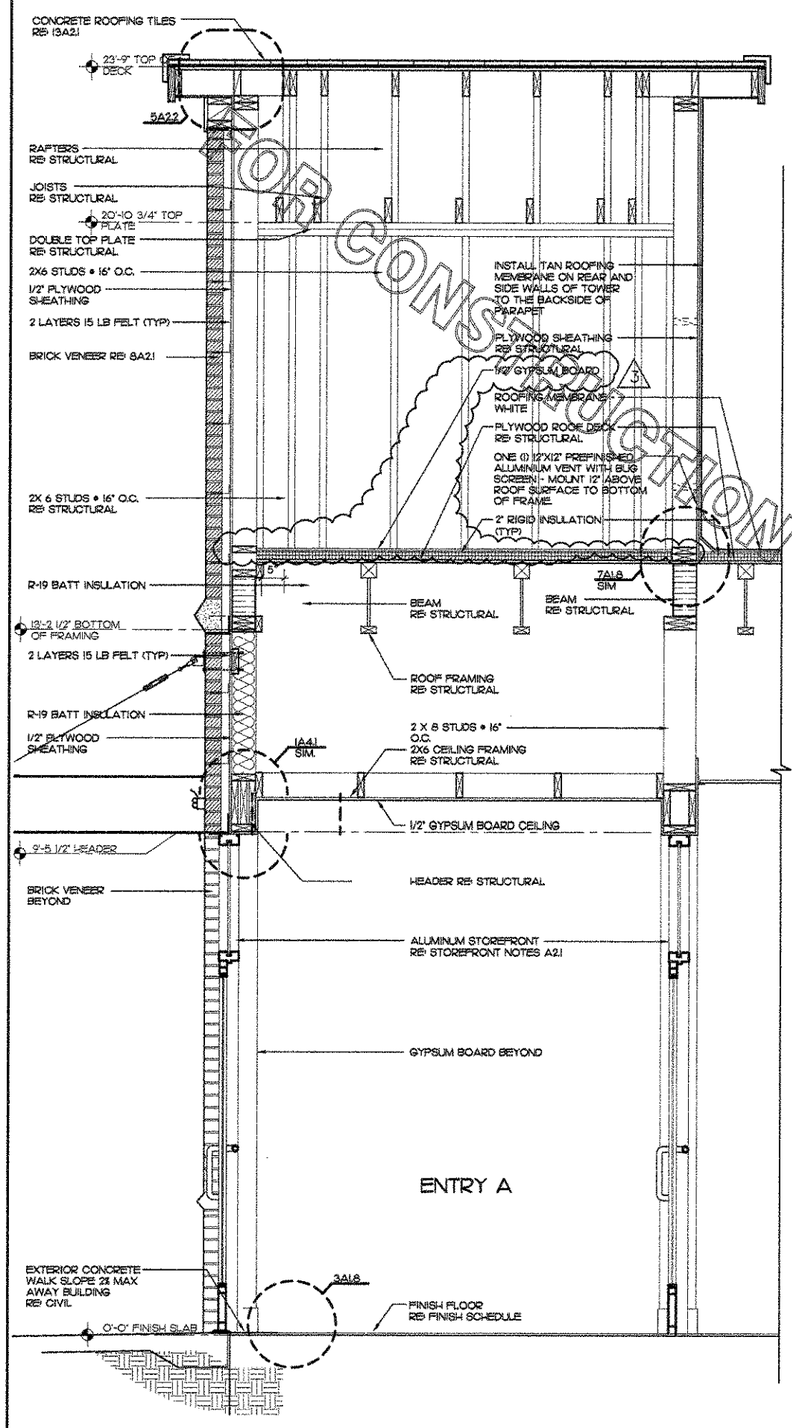
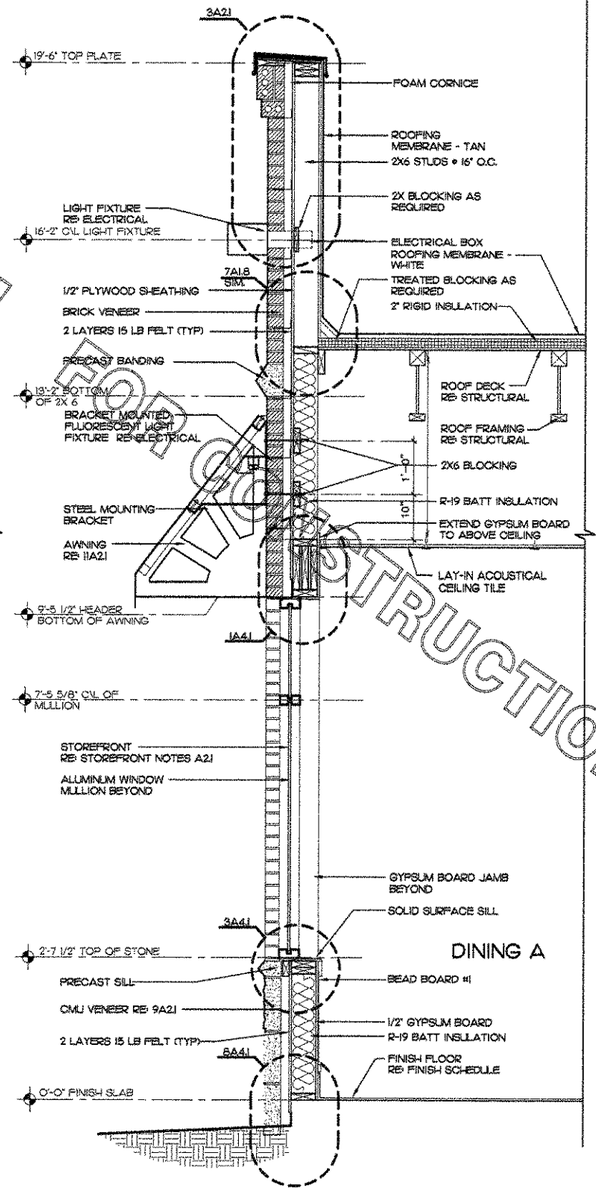
Sheet
A-3.2



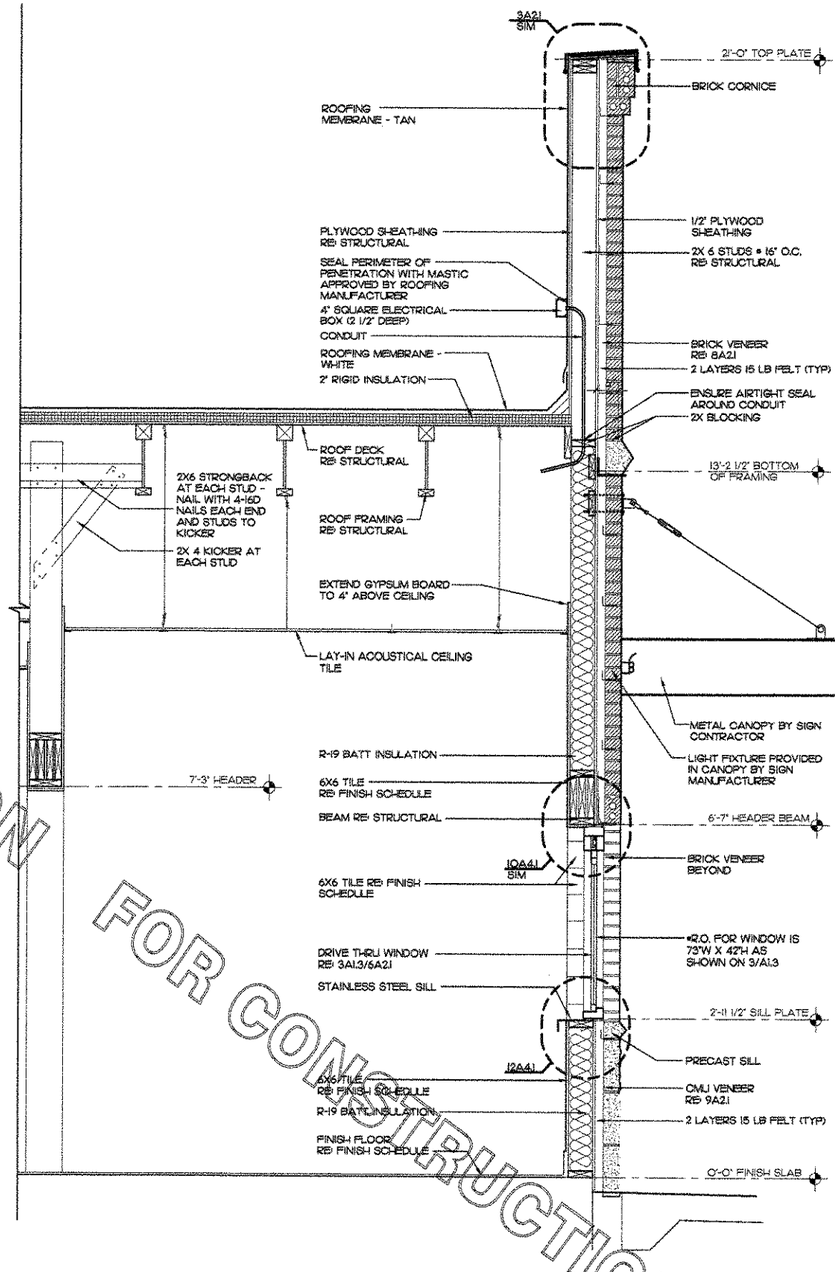
1 WALL SECTION AT ENTRY "A"

3/4"= 1'-0"



2 TYPICAL WALL SECTION AT WINDOW

3/4"= 1'-0"



3 WALL SECTION AT DRIVE THRU

3/4"= 1'-0"

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Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
3	12/29/06	rw

fire department comments

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Mark	Date	By

EDWARDS + HOTCHKISS ARCHITECTS, P.C.
THE HORSE BARN AT
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216 WARD CIRCLE, SUITE 1
BRENTWOOD, TENNESSEE
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eh ARCHITECTS

STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
WALL SECTIONS

DWG EDITION 05.9
REVISION --

Job No. :-----
Store :1976
Date :-----
Drawn By :---
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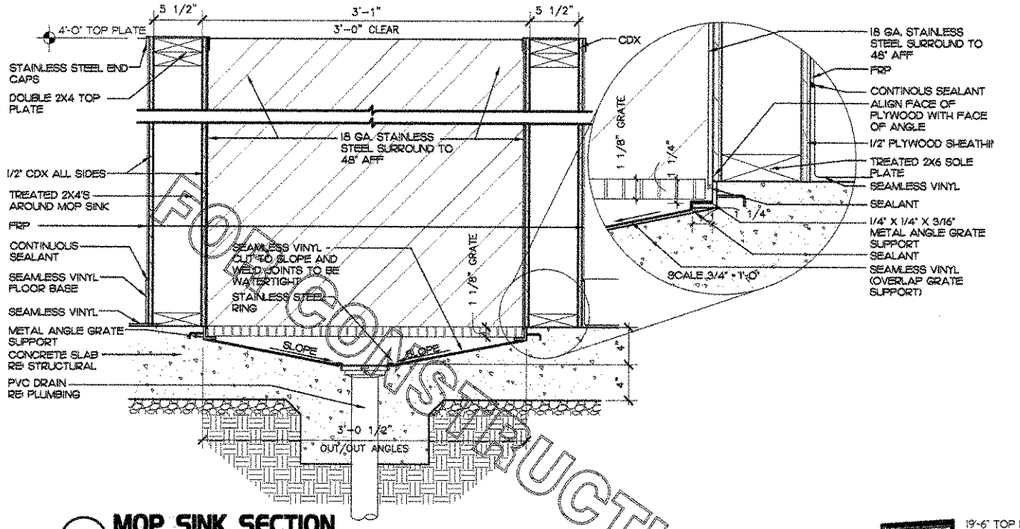
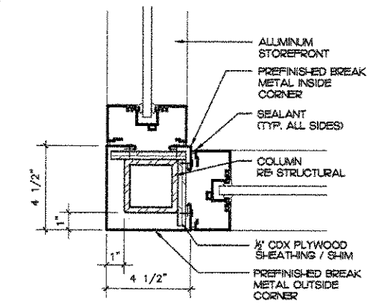
Sheet
A-3.3



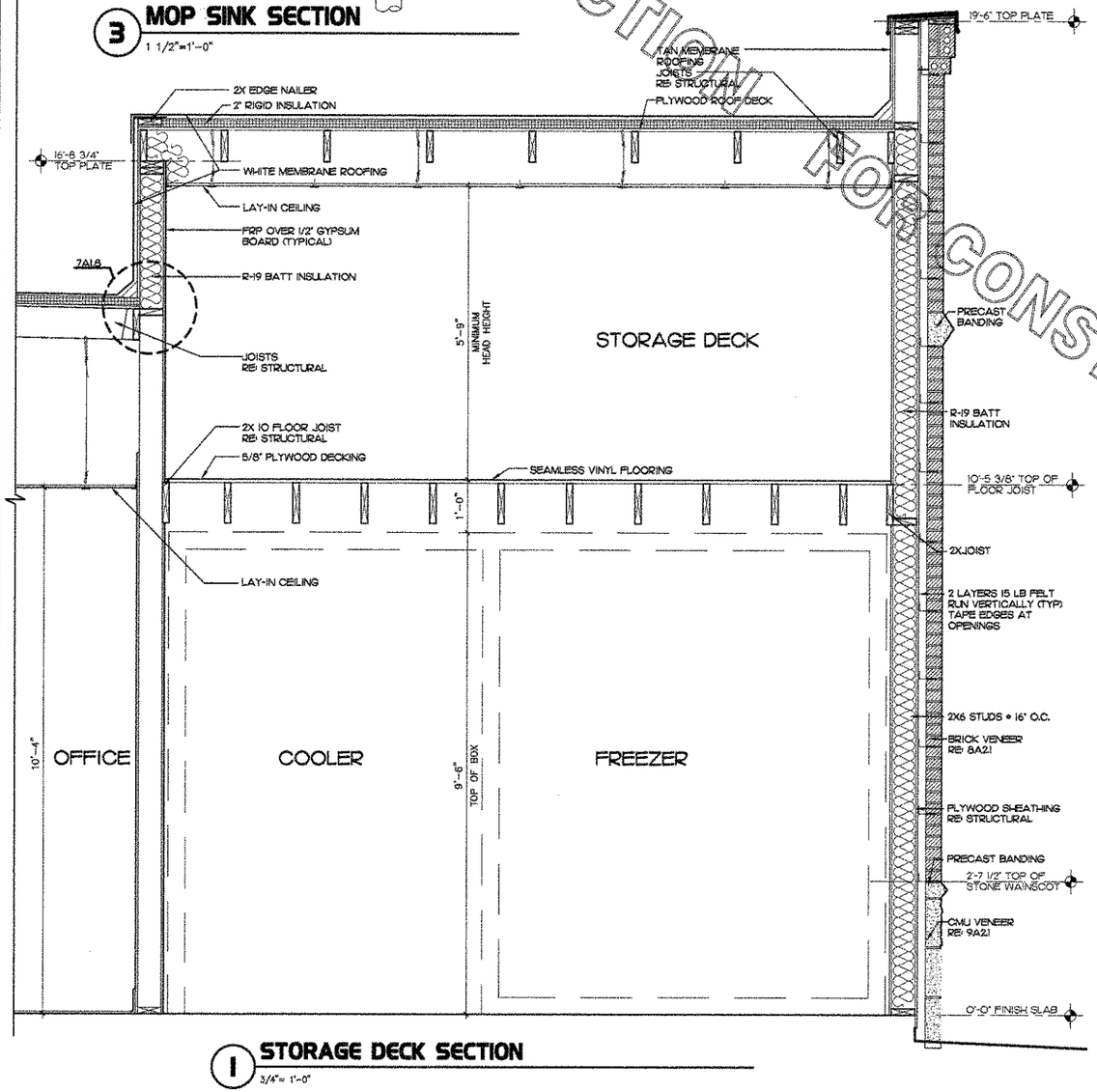
3 MOP SINK SECTION

1 1/2"=1'-0"



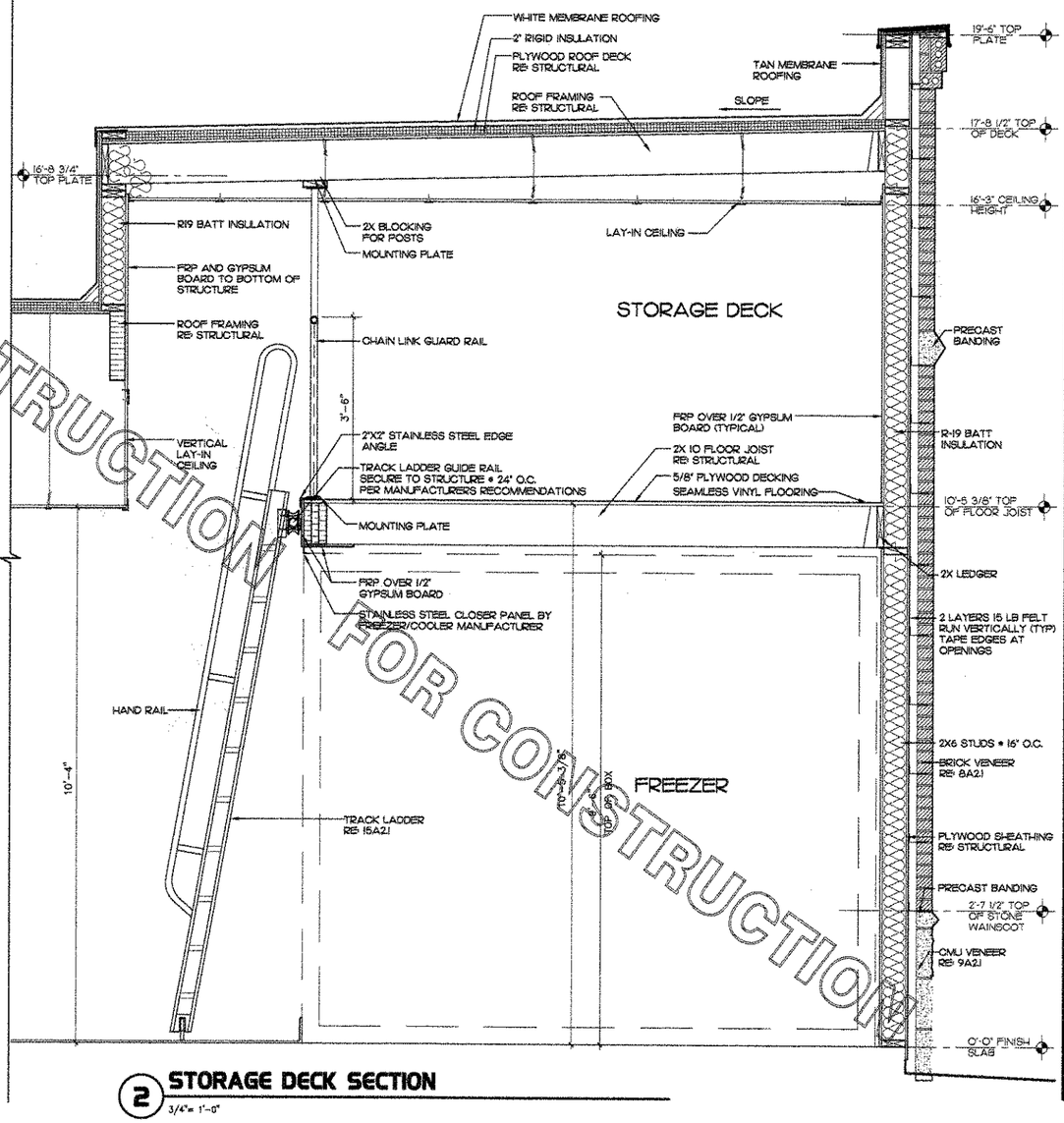
4 OUTSIDE CORNER JAMB @ PLAY AREA

3"= 1'-0"



1 STORAGE DECK SECTION

3/4"= 1'-0"



2 STORAGE DECK SECTION

3/4"= 1'-0"

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Mark	Date	By

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EDWARDS • HOTCHKISS ARCHITECTS, P.C.
THE HORSE BARN AT MARYLAND FARMS
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e+h ARCHITECTS

STORE
Chesterfield Commons
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Chesterfield Commons
Chesterfield, MO

SHEET TITLE
WALL SECTIONS

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Job No. :-----
Store :1976
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Sheet
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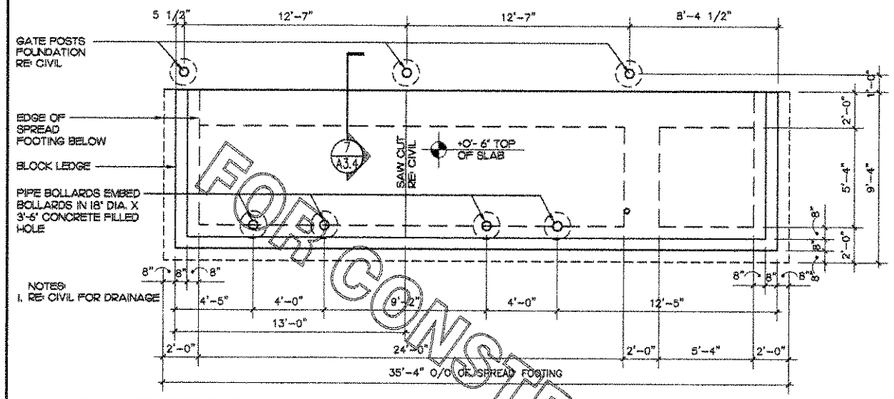
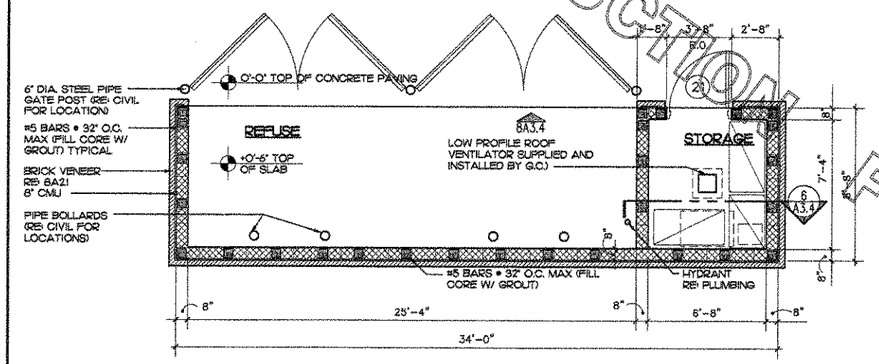
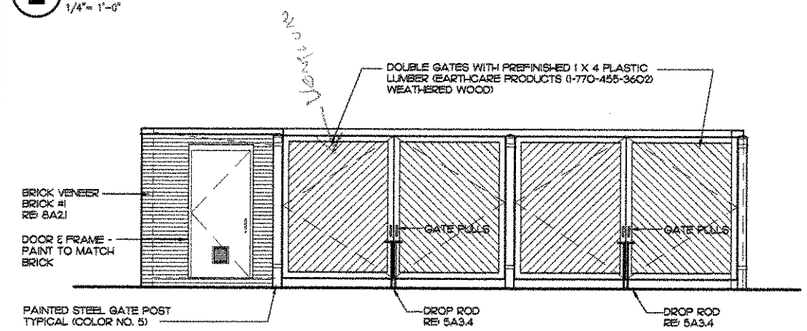


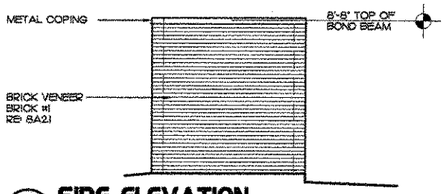
1 FOUNDATION PLAN
1/4"= 1'-0"



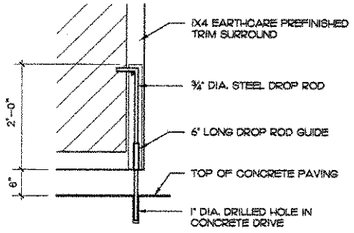
2 FLOOR PLAN
1/4"= 1'-0"



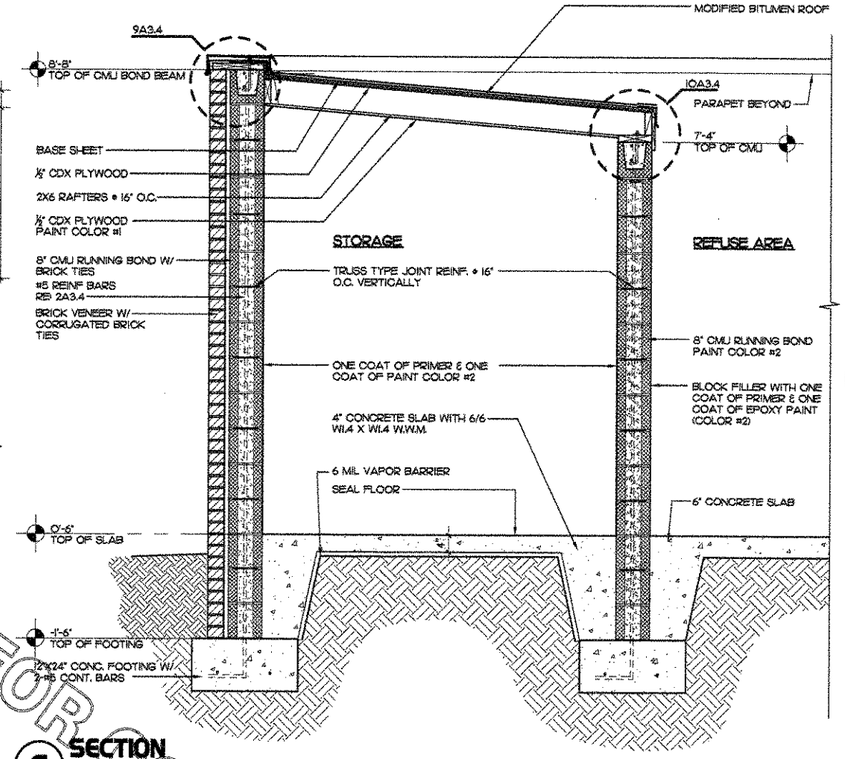
3 FRONT ELEVATION
1/4"= 1'-0"



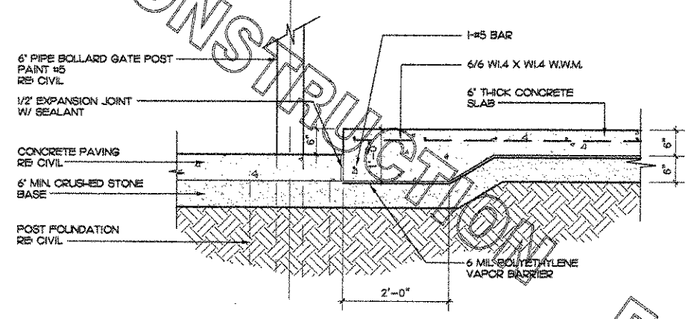
4 SIDE ELEVATION
1/4"= 1'-0"



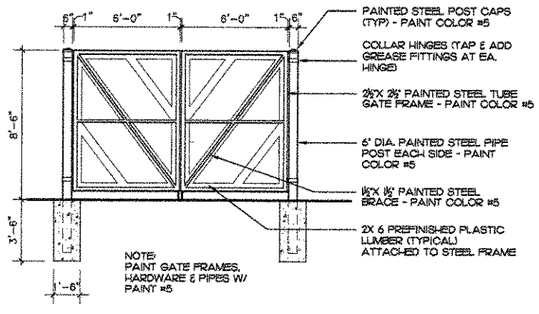
5 DROP ROD DETAIL
3/4"=1'-0"



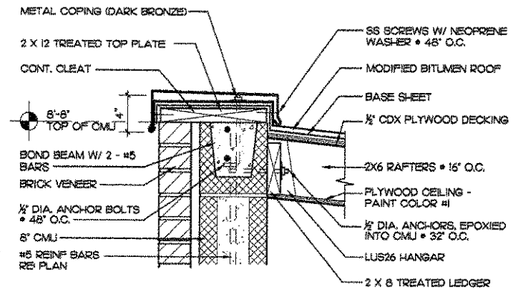
6 SECTION
3/4"=1'-0"



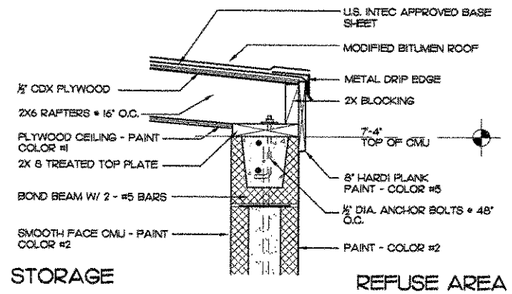
7 REFUSE PAD AT CONCRETE PAVING DETAIL
3/4"=1'-0"



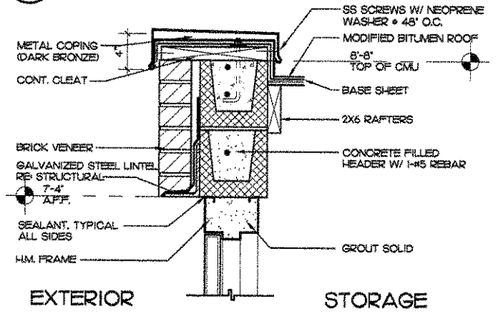
8 TYPICAL DOUBLE GATE ELEVATION
1/4"= 1'-0"



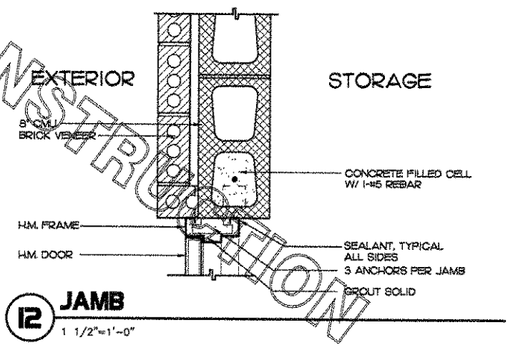
9 ROOF EDGE DETAIL
1 1/2"=1'-0"



10 ROOF EDGE DETAIL
1 1/2"=1'-0"



11 HEAD DETAIL
1 1/2"=1'-0"



12 JAMB
1 1/2"=1'-0"

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EDWARDS + HOTCHKISS ARCHITECTS, P.C.
THE FORGE PARK ART
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eh ARCHITECTS

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
1	01-11-06	SG

BRICK EXTERIOR PER PLANNING COMMISSION

Mark	Date	By

STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

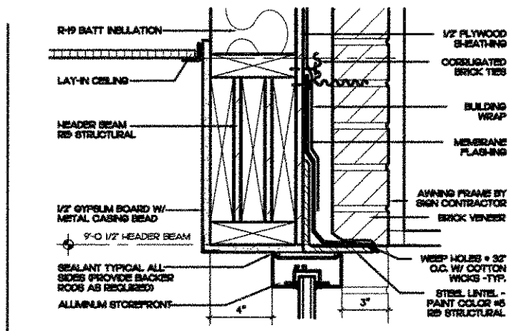
SHEET TITLE
REFUSE ENCLOSURE

DWG EDITION 05.9
REVISION —

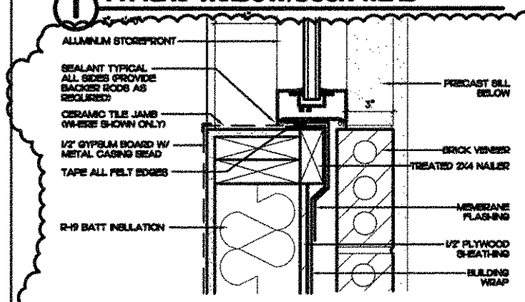
Job No. :-----
Store :1976
Date :-----
Drawn By :____
Checked By:____

Sheet
A-3.5

R-19 BATT INSULATION — 1/2" PLYWOOD — 2X BLOCKING RB SECTIONS E WALL SECTIONS — 2X6 FRAMING



1 TYPICAL WINDOW/DOOR HEAD

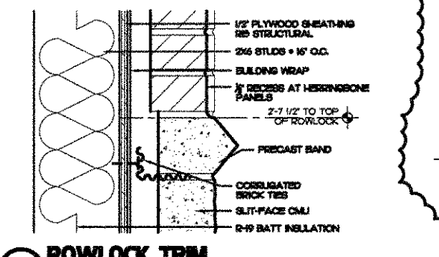


2 TYPICAL WINDOW/DOOR JAMB

3" = 1'-0"

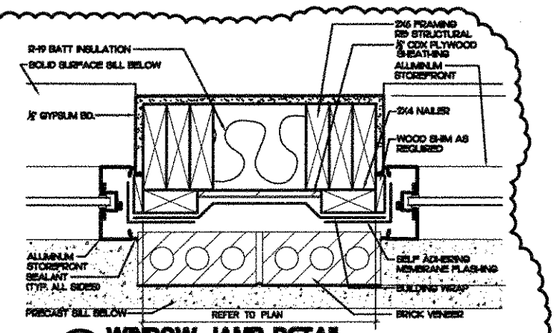
5 SOLDIER TRIM

3"=1'-0"



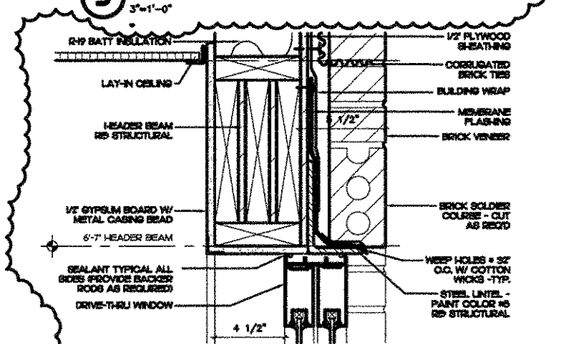
6 ROWLOCK TRIM

3"=1'-0"



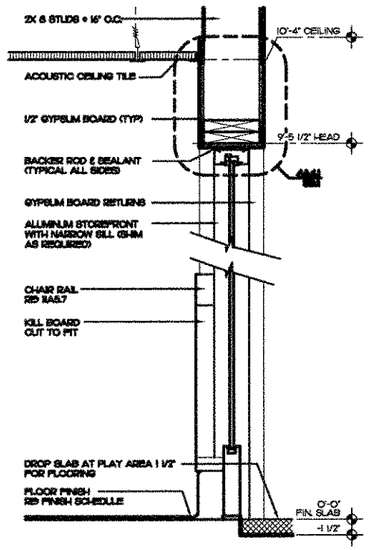
9 WINDOW JAMB DETAIL

3"=1'-0"



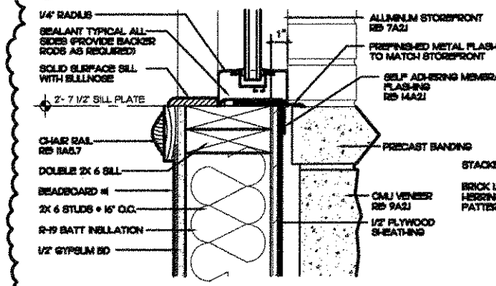
10 DRIVE-THRU HEAD

3"= 1'-0"



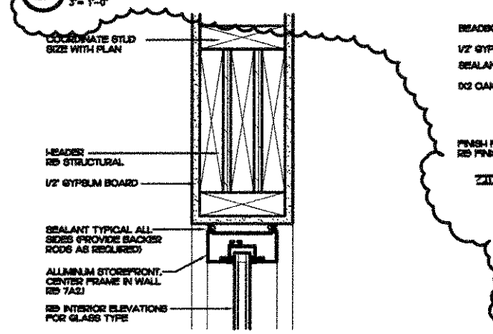
13 SECTION PLAY AREA/DINING B

1 1/2"=1'-0"



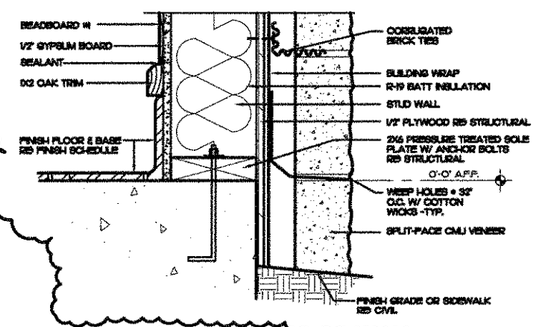
3 TYPICAL WINDOW SILL

3" = 1'-0"



4 TYPICAL INTERIOR STOREFRONT HEAD

3" = 1'-0"

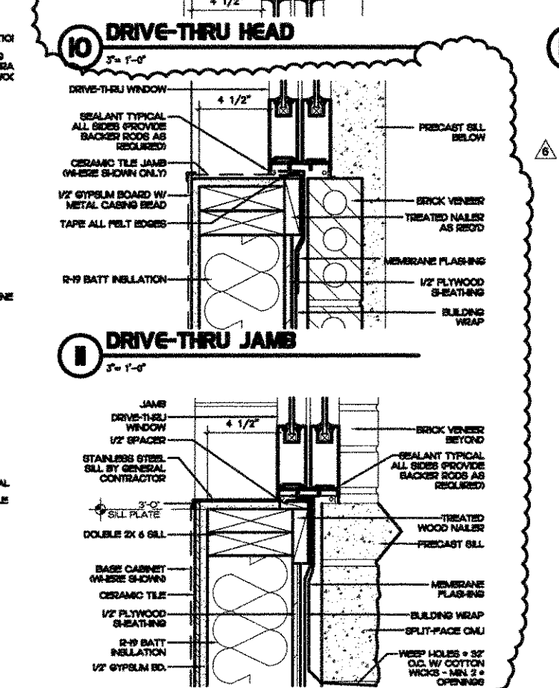


7 RECESSED PANEL DETAIL

3" = 1'-0"

8 TYPICAL BASE OF WALL

3" = 1'-0"



1 DRIVE-THRU JAMB

3" = 1'-0"

12 SILL @ DRIVE-THRU WINDOW

3" = 1'-0"

4 3" = 1'-0"

ENGINEERING & ARCHITECTURAL ASSOCIATES, INC.
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E-MAIL: gamm@eaainc.com

eh ARCHITECTS

5200 Buffington Rd.
Atlanta, Georgia
30349-2998

Revisions:

Mark	Date	By
6	4/9/07	rw
detail clarification per owner		

Mark	Date	By

STORE
Chesterfield Commons
FSU S08C-R

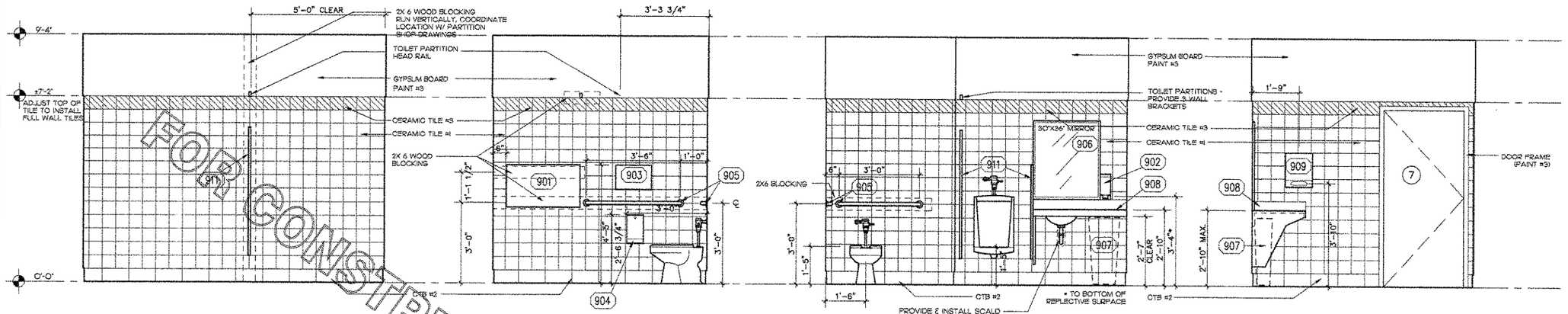
Chesterfield Commons
Chesterfield, MO

SHEET TITLE
EXTERIOR DETAILS

DWG EDITION 05.9
REVISION —

Job No. :
Store : 1978
Date :
Drawn By :
Checked By:

Sheet
A-4.1

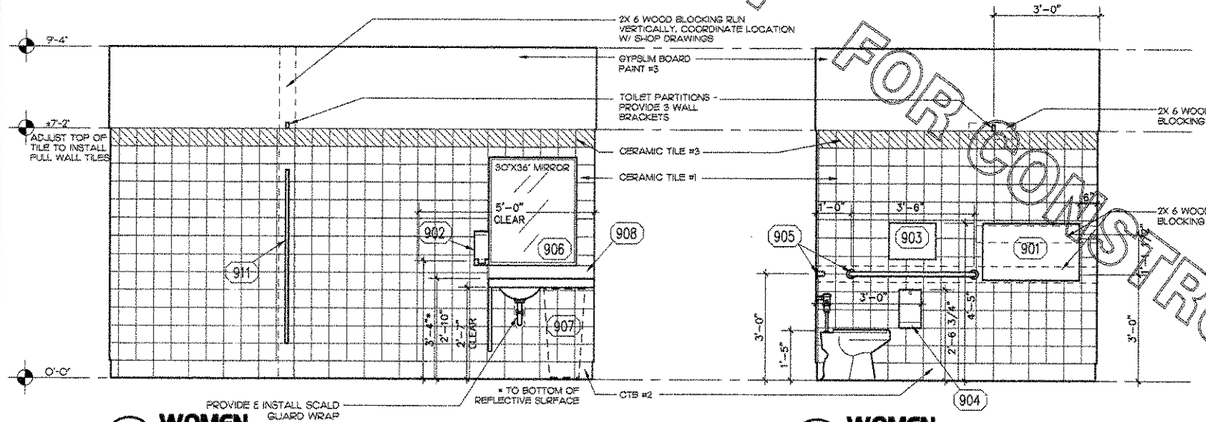


1 **MEN** 1/2"= 1'-0"

2 **MEN** 1/2"= 1'-0"

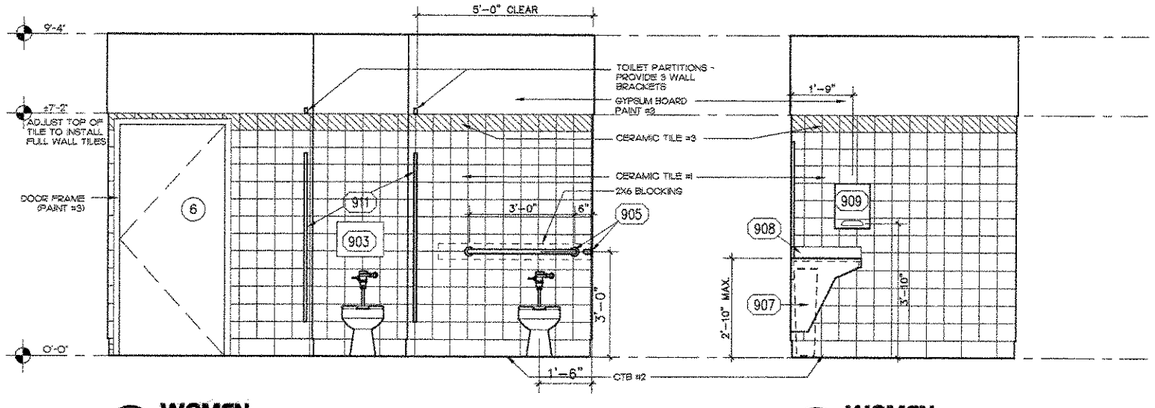
3 **MEN** 1/2"= 1'-0"

4 **MEN** 1/2"= 1'-0"



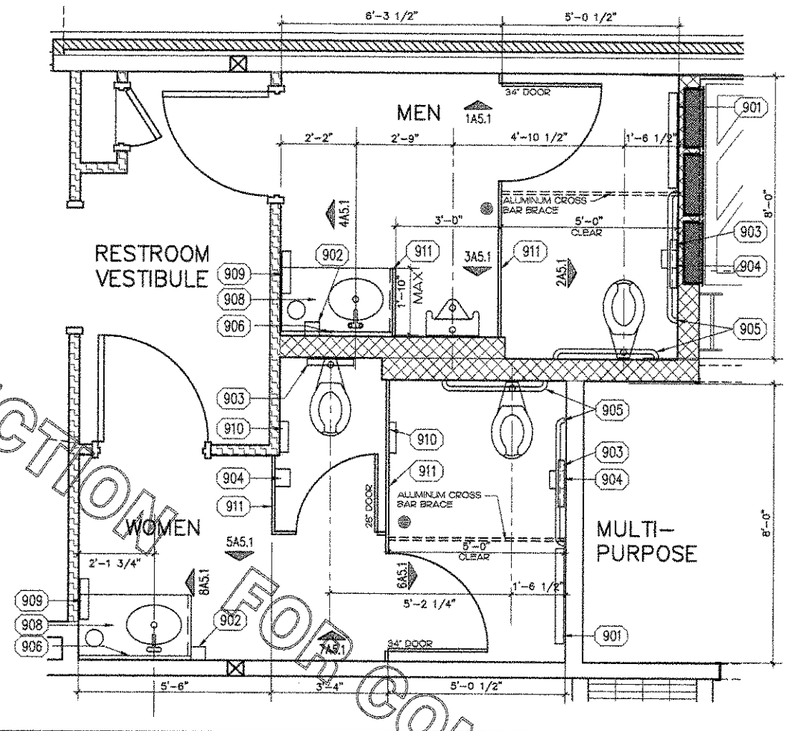
5 **WOMEN** 1/2"= 1'-0"

6 **WOMEN** 1/2"= 1'-0"



7 **WOMEN** 1/2"= 1'-0"

8 **WOMEN** 1/2"= 1'-0"



	DESCRIPTION	QUANTITY	MANUFACTURER	FURNISHED BY	INSTALLED BY	MODEL #
901	BABY CHANGING STATION	2	RUBBERMAID	OWNER	EQUIPMENT INSTALLER	
902	SOAP DISPENSER	2	-	OWNER	EQUIPMENT INSTALLER	
903	TOILET SEAT COVER DISP.	3	ASI	GENERAL CONTRACTOR	GENERAL CONTRACTOR	#0477SM
904	TOILET PAPER DISPENSER	3	-	OWNER	EQUIPMENT INSTALLER	
905	GRAB BAR	2 EACH	ASI	GENERAL CONTRACTOR	GENERAL CONTRACTOR	#3201-36 & 3201-42
906	MIRROR	2	ASI	GENERAL CONTRACTOR	GENERAL CONTRACTOR	#2620-A
907	TRASH RECEPTACLE	2	RUBBERMAID	OWNER	GENERAL CONTRACTOR	
908	VANITY	2	CABINET MFR.	OWNER	EQUIPMENT INSTALLER	
909	PAPER TOWEL DISP.	2	-	OWNER	EQUIPMENT INSTALLER	
910	SANITARY NAPKIN DISPOSAL	2	-	OWNER	GENERAL CONTRACTOR	
911	TOILET PARTITION/ URINAL SCREEN		MARLITE	OWNER	EQUIPMENT INSTALLER	SEE NOTE

NOTE:
3/4" PHENOLIC TO MATCH WILSONART "CONGO SPRUCE" MATTE FINISH. TO BE FURNISHED AND INSTALLED BY EQUIPMENT INSTALLER. RE: 3A1.2 NOTE #8.

9 **ENLARGED RESTROOM PLAN AND LEGEND** 1/2"= 1'-0"

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Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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1		
2		
3		

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CL#13

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FAX: 615/377-0979
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eh ARCHITECTS

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FSU S06C-R

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Chesterfield, MO

SHEET TITLE
TOILET ROOM ENLARGED PLAN & ELEVATION

DWG EDITION 05.9
REVISION —

Job No. :----
Store :1976
Date :----
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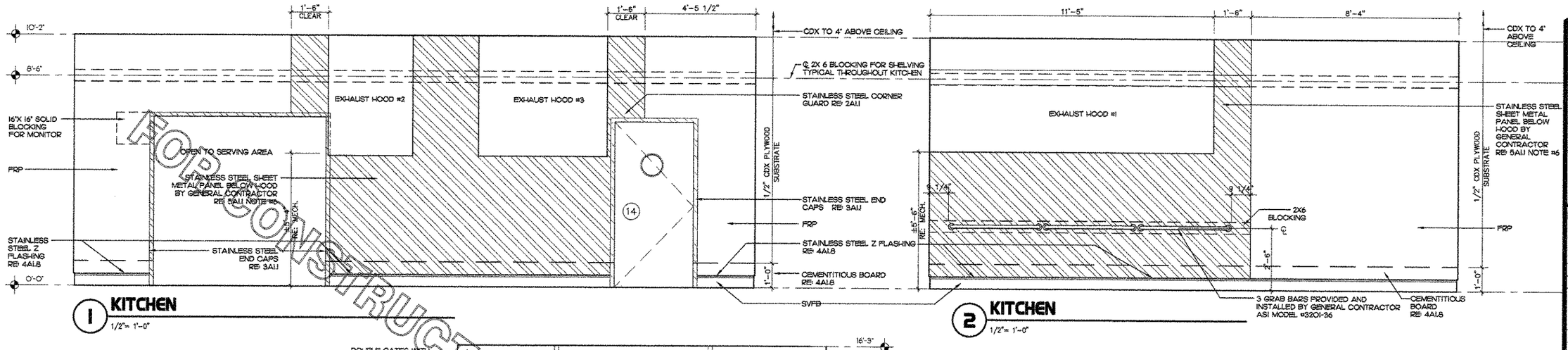
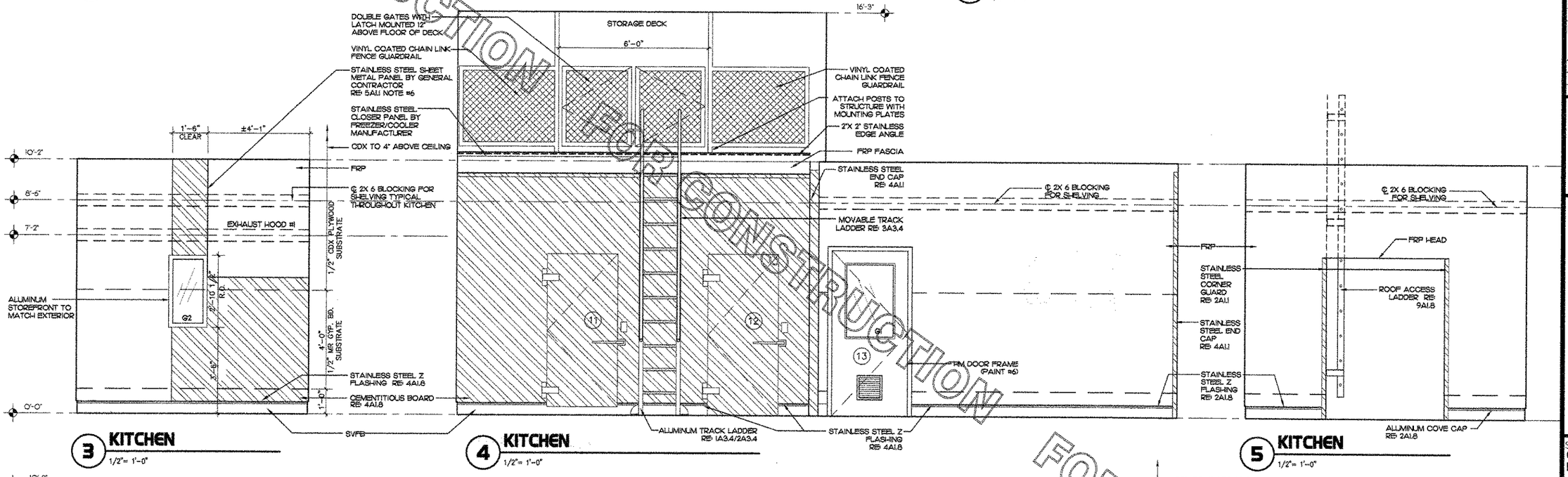
Sheet
A-5.1



1 KITCHEN
1/2"= 1'-0"

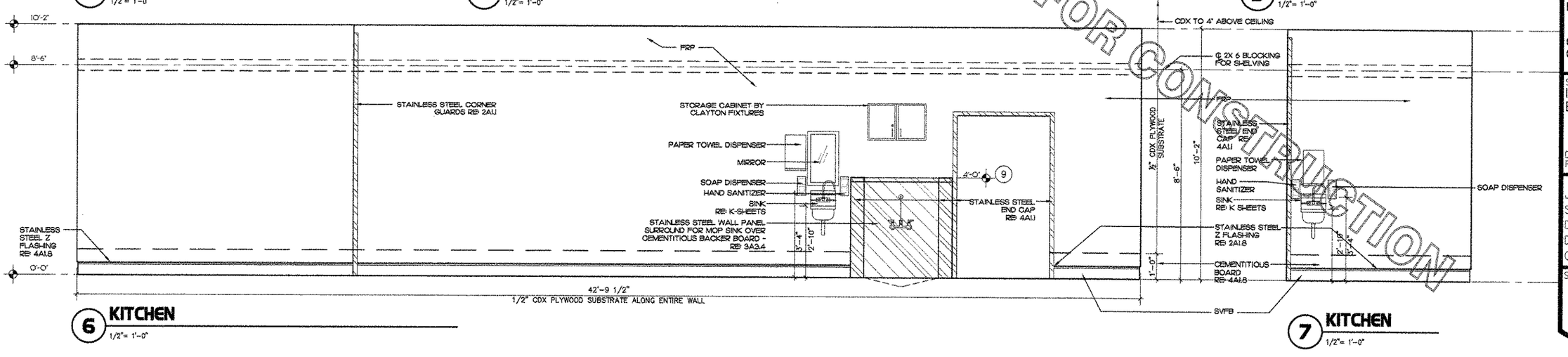
2 KITCHEN
1/2"= 1'-0"



3 KITCHEN
1/2"= 1'-0"

4 KITCHEN
1/2"= 1'-0"

5 KITCHEN
1/2"= 1'-0"



6 KITCHEN
1/2"= 1'-0"

7 KITCHEN
1/2"= 1'-0"

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Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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EDWARDS + HOTCHKISS ARCHITECTS, P.C.
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THE HARD ROCK
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eh ARCHITECTS

STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
INTERIOR ELEVATIONS

DWG EDITION 05.9
REVISION —

Job No. :
Store :1976
Date :
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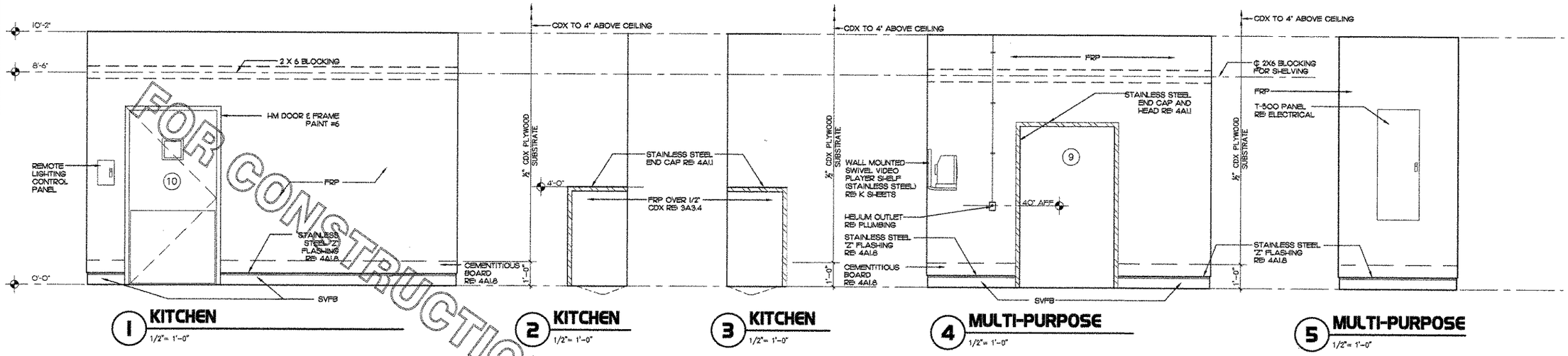
Checked By:

Sheet
A-5.2



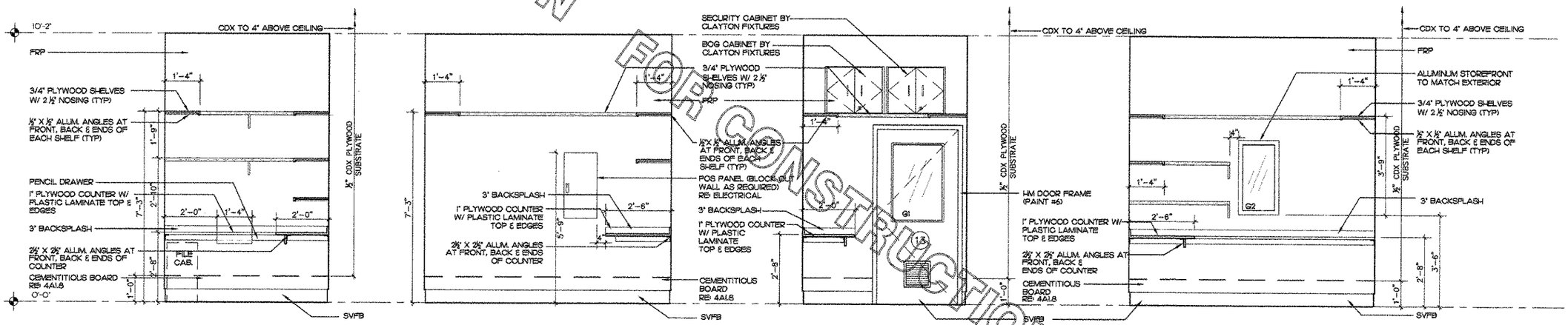
1 KITCHEN 1/2"= 1'-0"

2 KITCHEN 1/2"= 1'-0"

3 KITCHEN 1/2"= 1'-0"

4 MULTI-PURPOSE 1/2"= 1'-0"

5 MULTI-PURPOSE 1/2"= 1'-0"

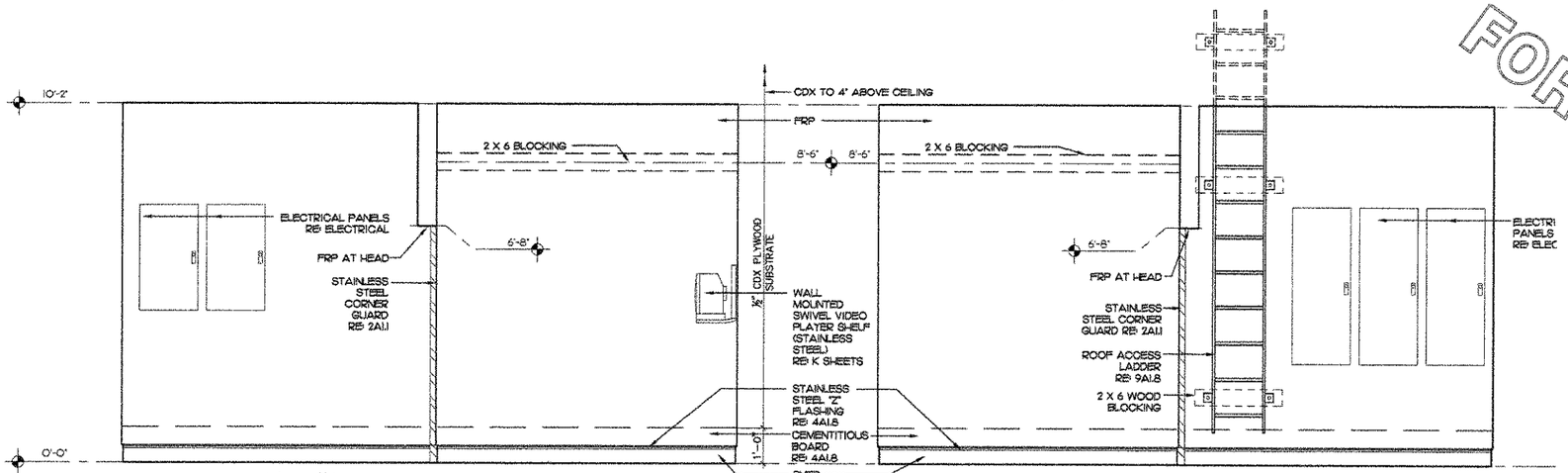


6 OFFICE 1/2"= 1'-0"

7 OFFICE 1/2"= 1'-0"

8 OFFICE 1/2"= 1'-0"

9 OFFICE 1/2"= 1'-0"



10 MULTI-PURPOSE 1/2"= 1'-0"

11 MULTI-PURPOSE 1/2"= 1'-0"

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5200 Buffington Rd.
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30349-2998

Revisions:

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EDWARDS + HOTCHKISS ARCHITECTS, P.C.
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STORE
Chesterfield Commons
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Chesterfield Commons
Chesterfield, MO

SHEET TITLE
INTERIOR ELEVATIONS

DWG EDITION 05.9
REVISION –

Job No. :
Store :1976
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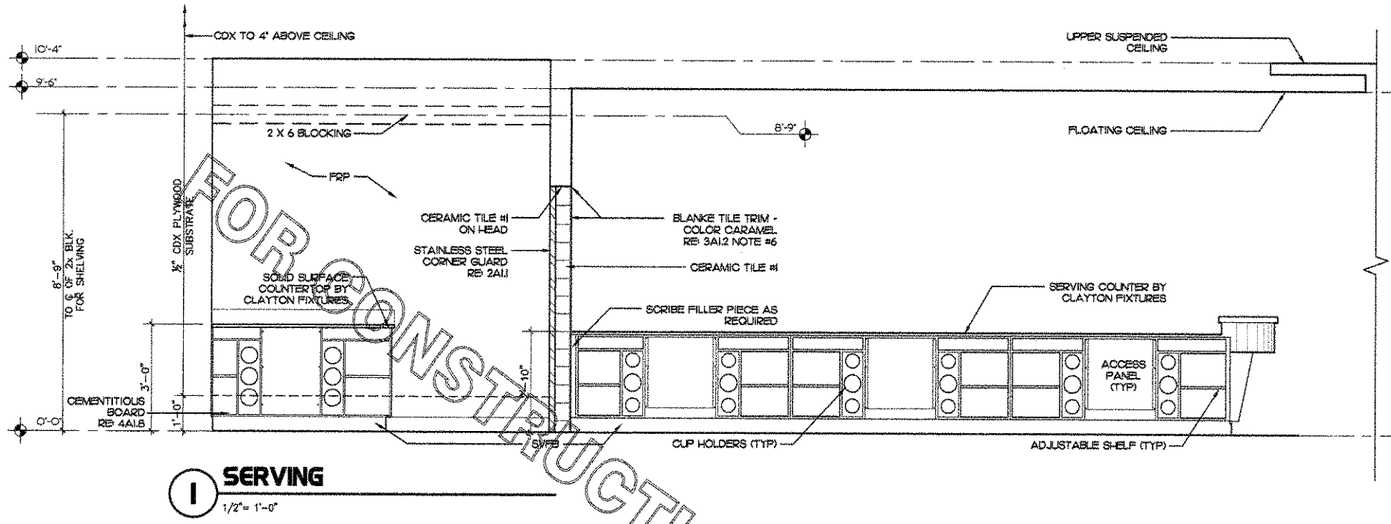

1 SERVING
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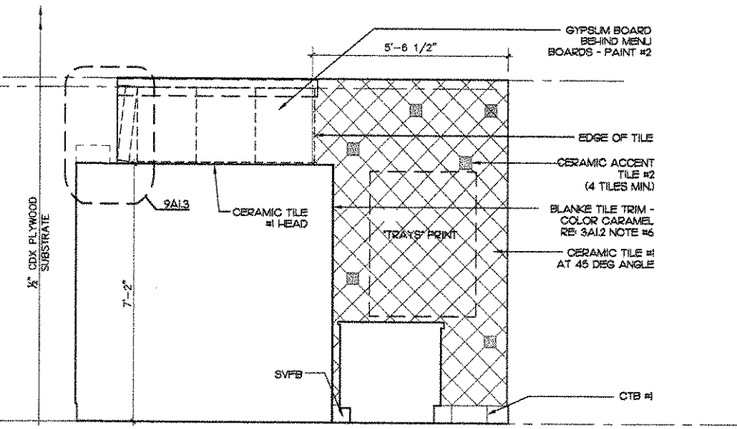

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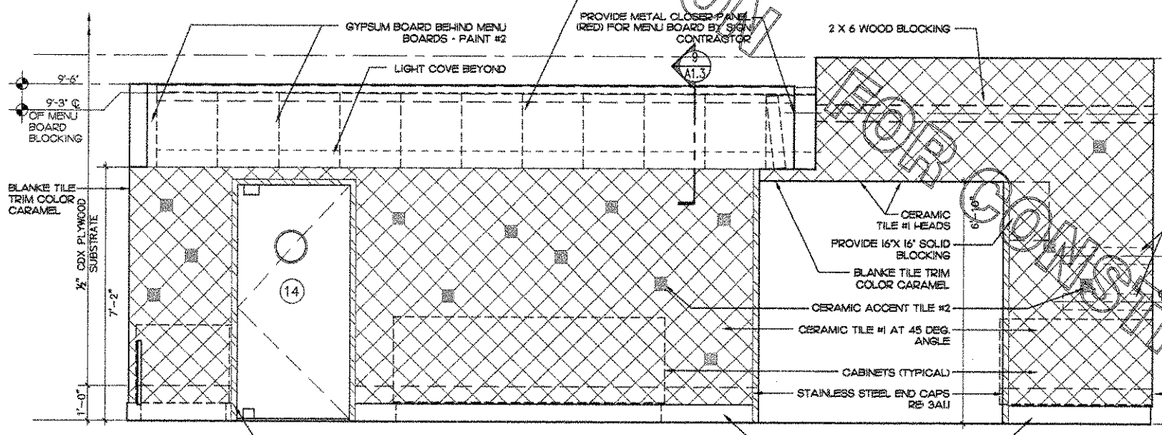

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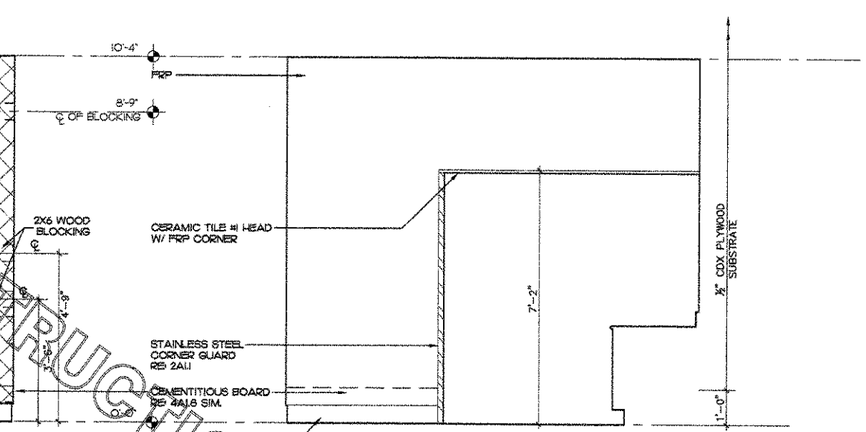

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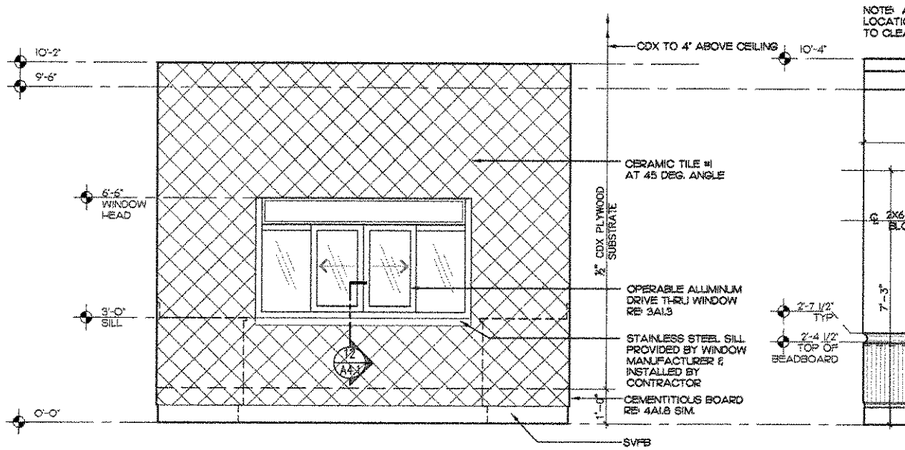
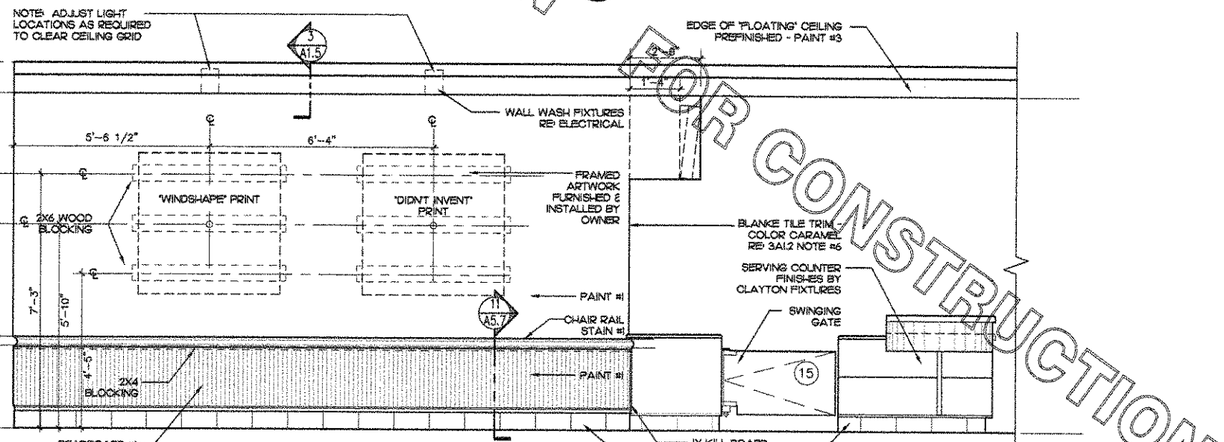


5 SERVING @ DRIVE THRU
1/2"= 1'-0"



6 DINING "A"
1/2"= 1'-0"

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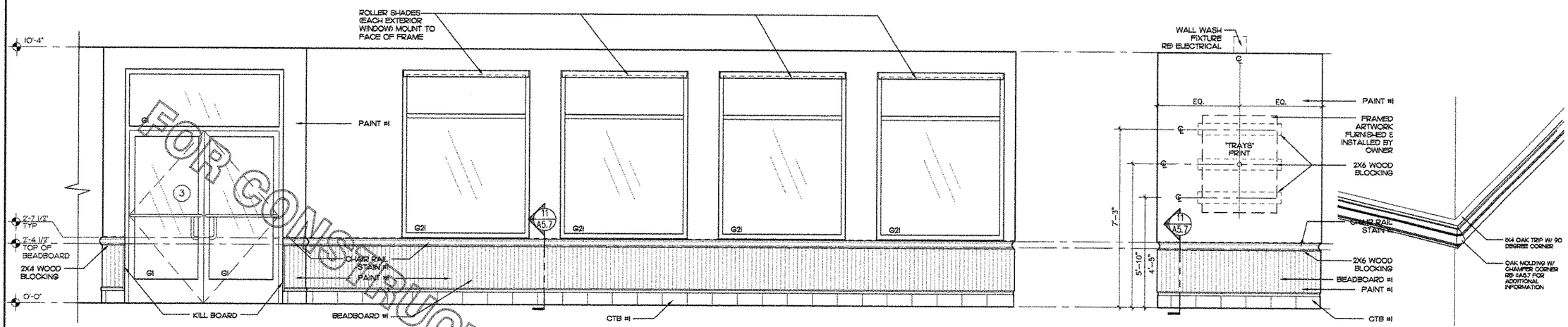
A-5.4

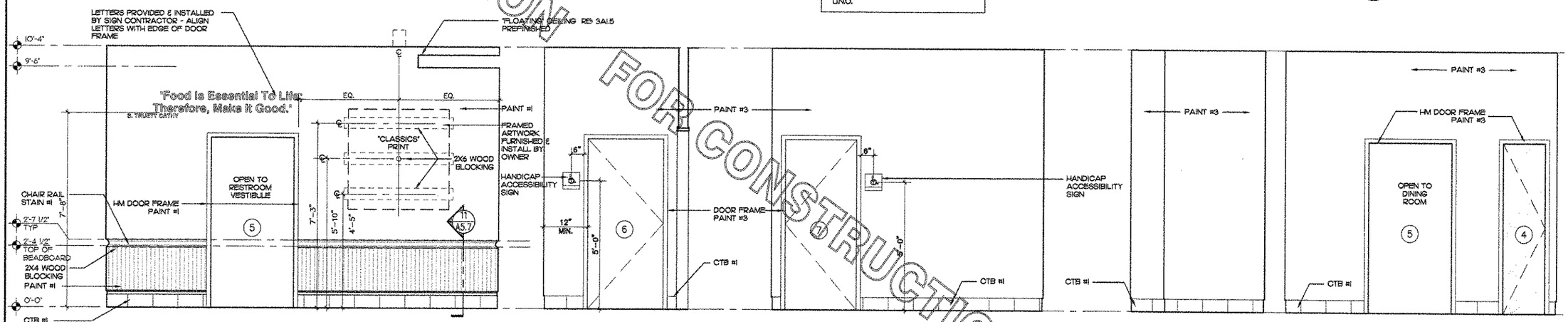


1 DINING "A"
1/2"= 1'-0"

- WAINSCOT NOTES:
1. PROVIDE 3/4" X 3/4" COVED TRIM AT ALL INSIDE CORNERS
2. PROVIDE 3/4" X 3/4" OUTSIDE CORNER U.N.O.

2 DINING "A"
1/2"= 1'-0"

10 CHAIR RAIL DETAIL
3"= 1'-0"



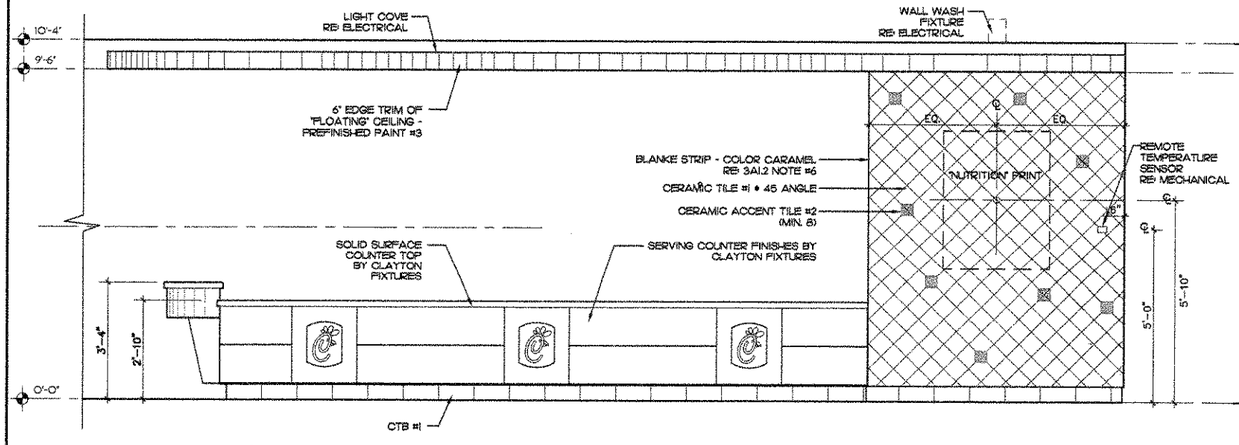
3 DINING "A"
1/2"= 1'-0"

4 VESTIBULE
1/2"= 1'-0"

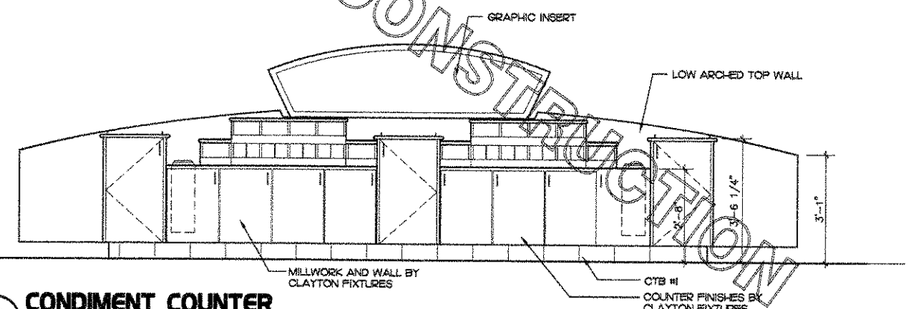
5 VESTIBULE
1/2"= 1'-0"

6 VESTIBULE
1/2"= 1'-0"

7 VESTIBULE
1/2"= 1'-0"



8 ORDER AREA
1/2"= 1'-0"



9 CONDIMENT COUNTER
1/2"= 1'-0"

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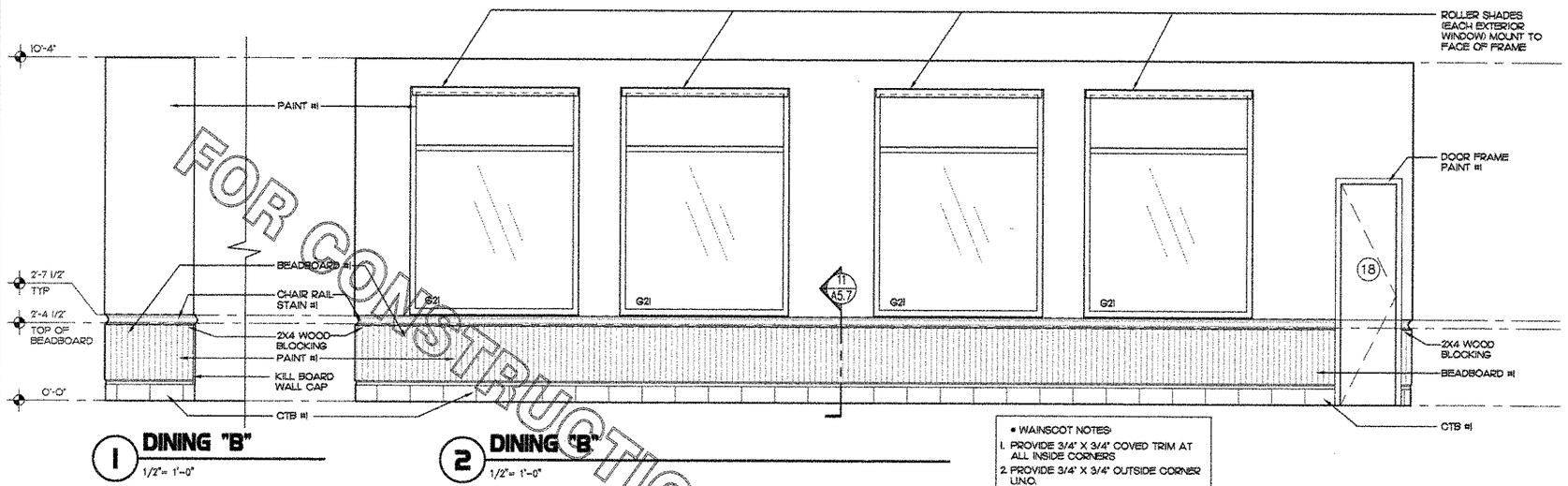
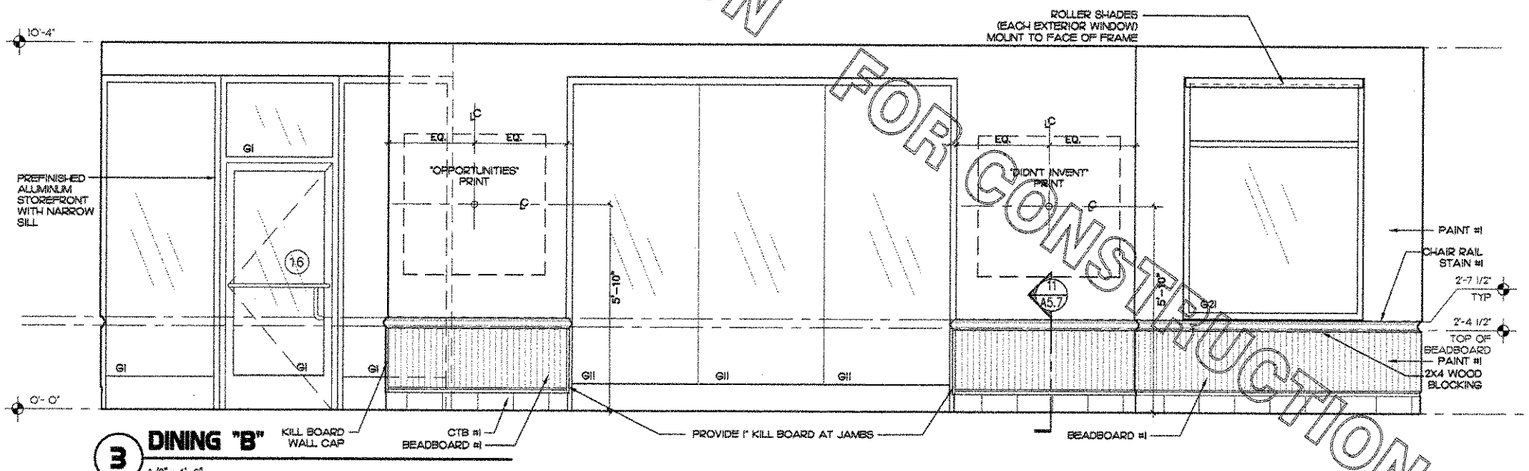


1 DINING "B" 1/2"= 1'-0"

2 DINING "B" 1/2"= 1'-0"

- WAINSCOT NOTES:
1. PROVIDE 3/4" X 3/4" COVED TRIM AT ALL INSIDE CORNERS
2. PROVIDE 3/4" X 3/4" OUTSIDE CORNER U.N.O.



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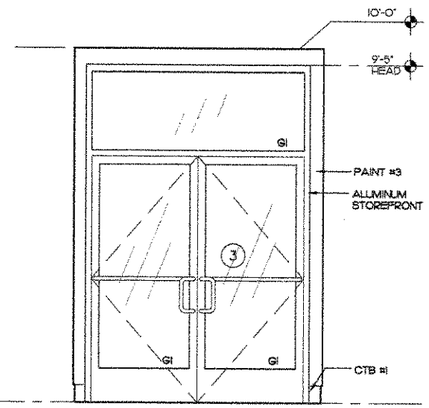
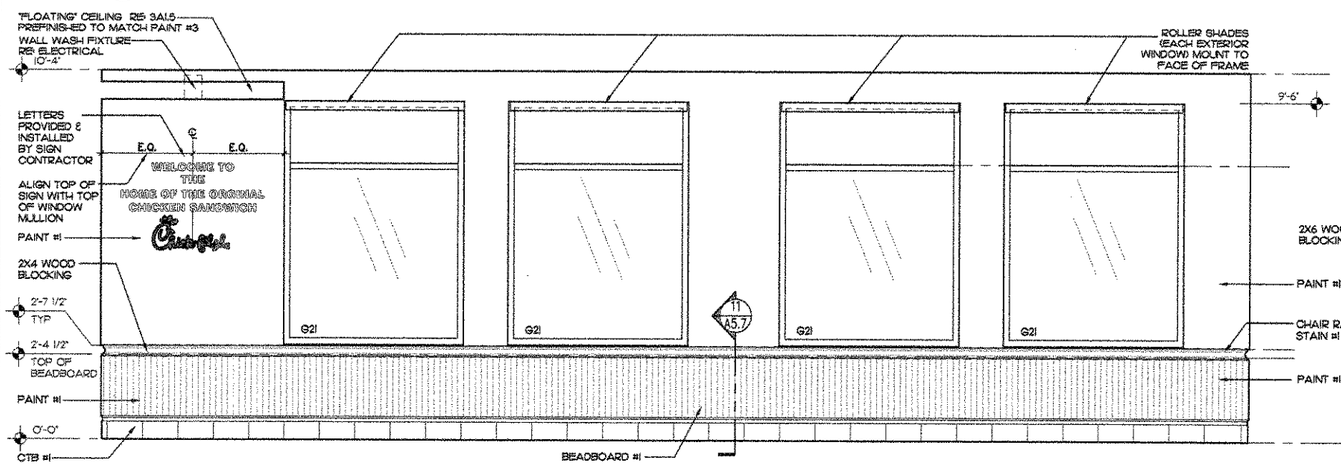
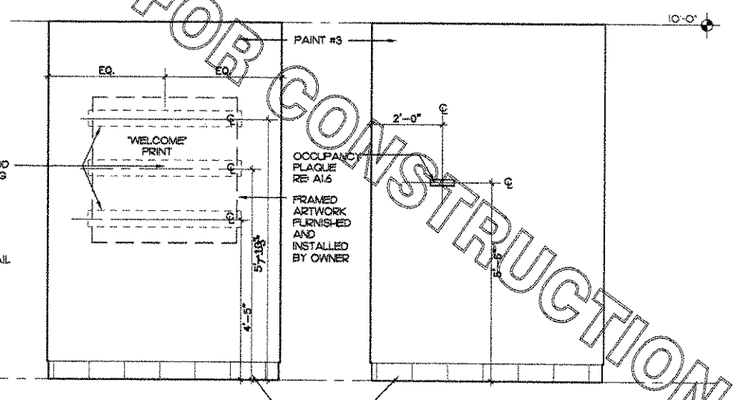


4 ENTRY "A" 1/2"= 1'-0"



5 DINING "B" 1/2"= 1'-0"



6 ENTRY "A" 1/2"= 1'-0"

7 ENTRY "A" 1/2"= 1'-0"

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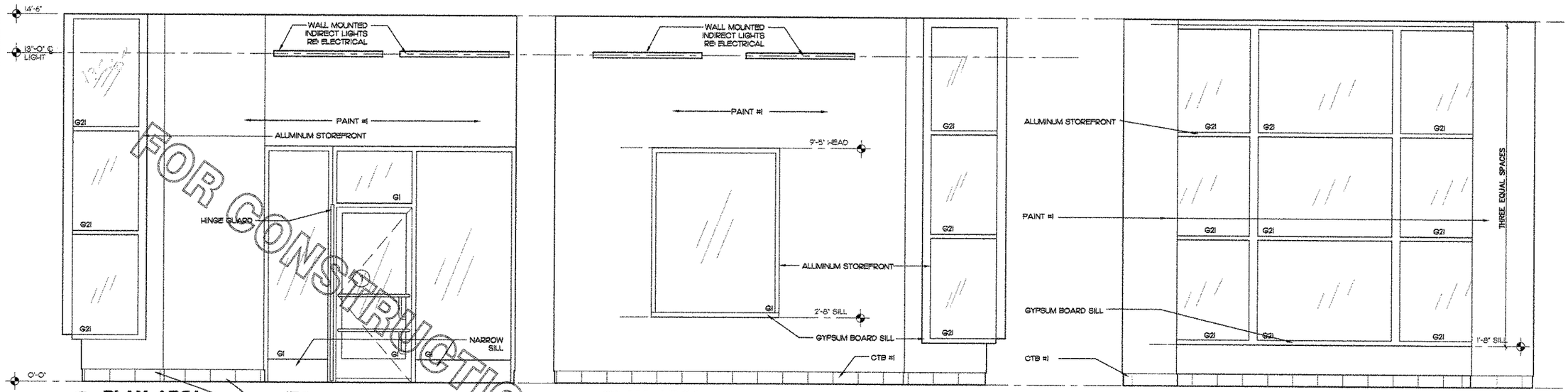

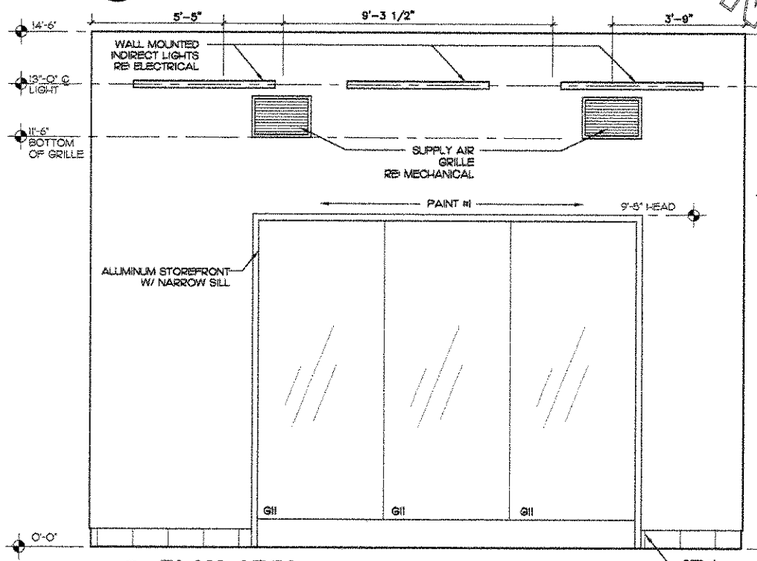

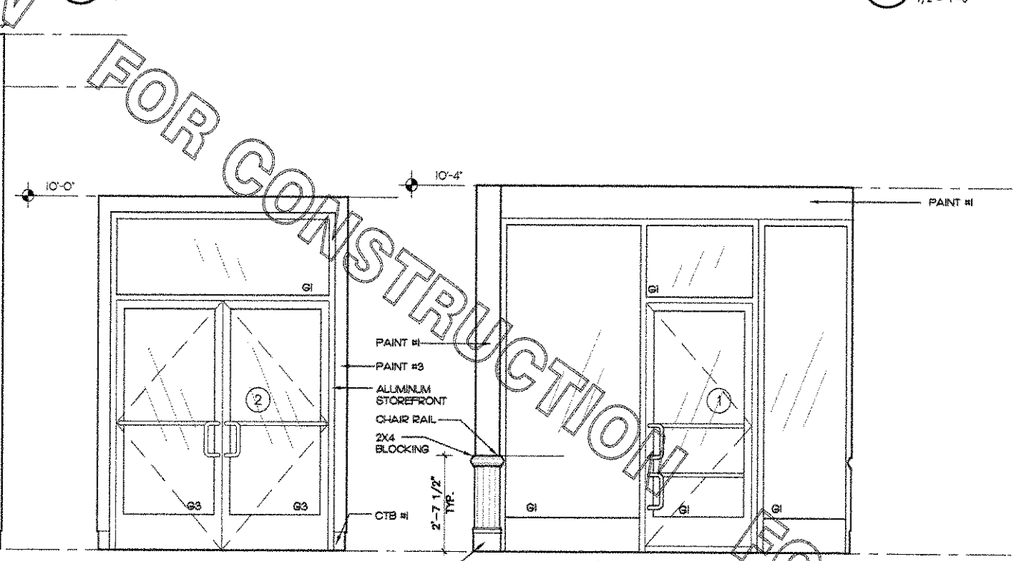

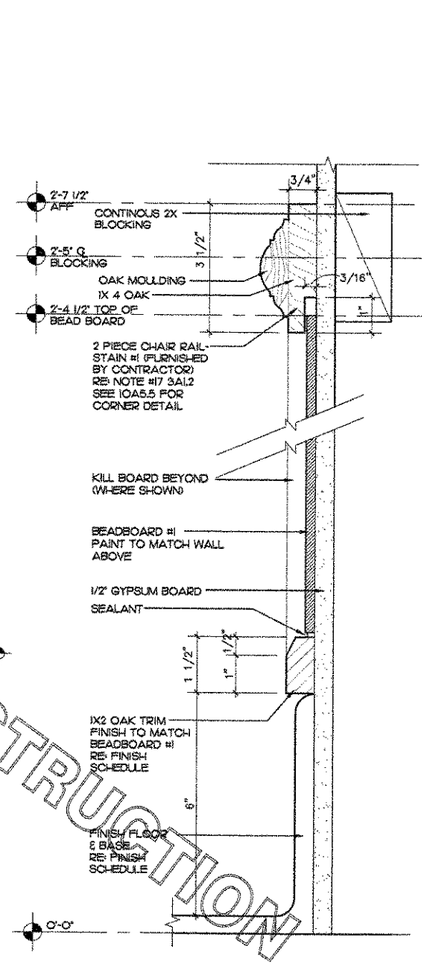

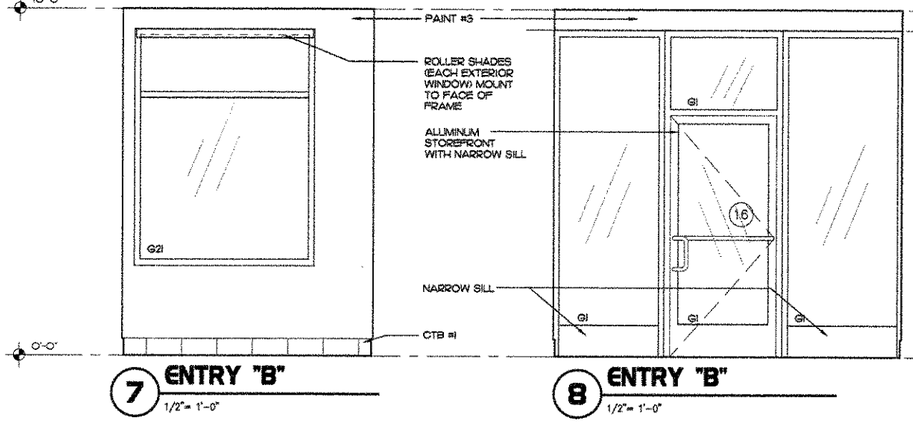

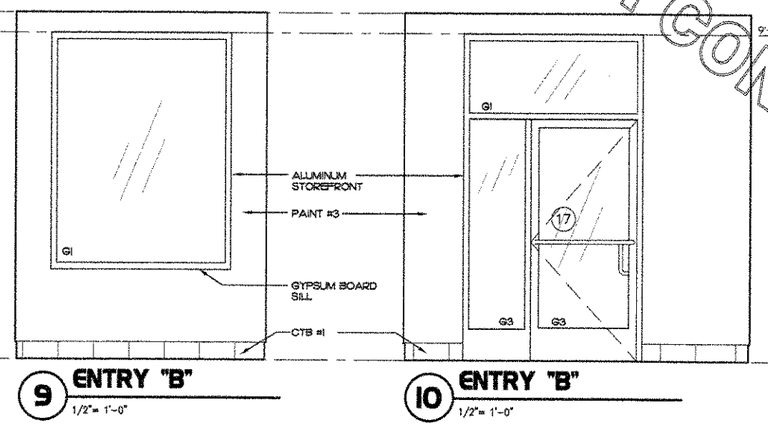

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Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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DWG EDITION 05.9
REVISION —

Job No. :
Store :1976
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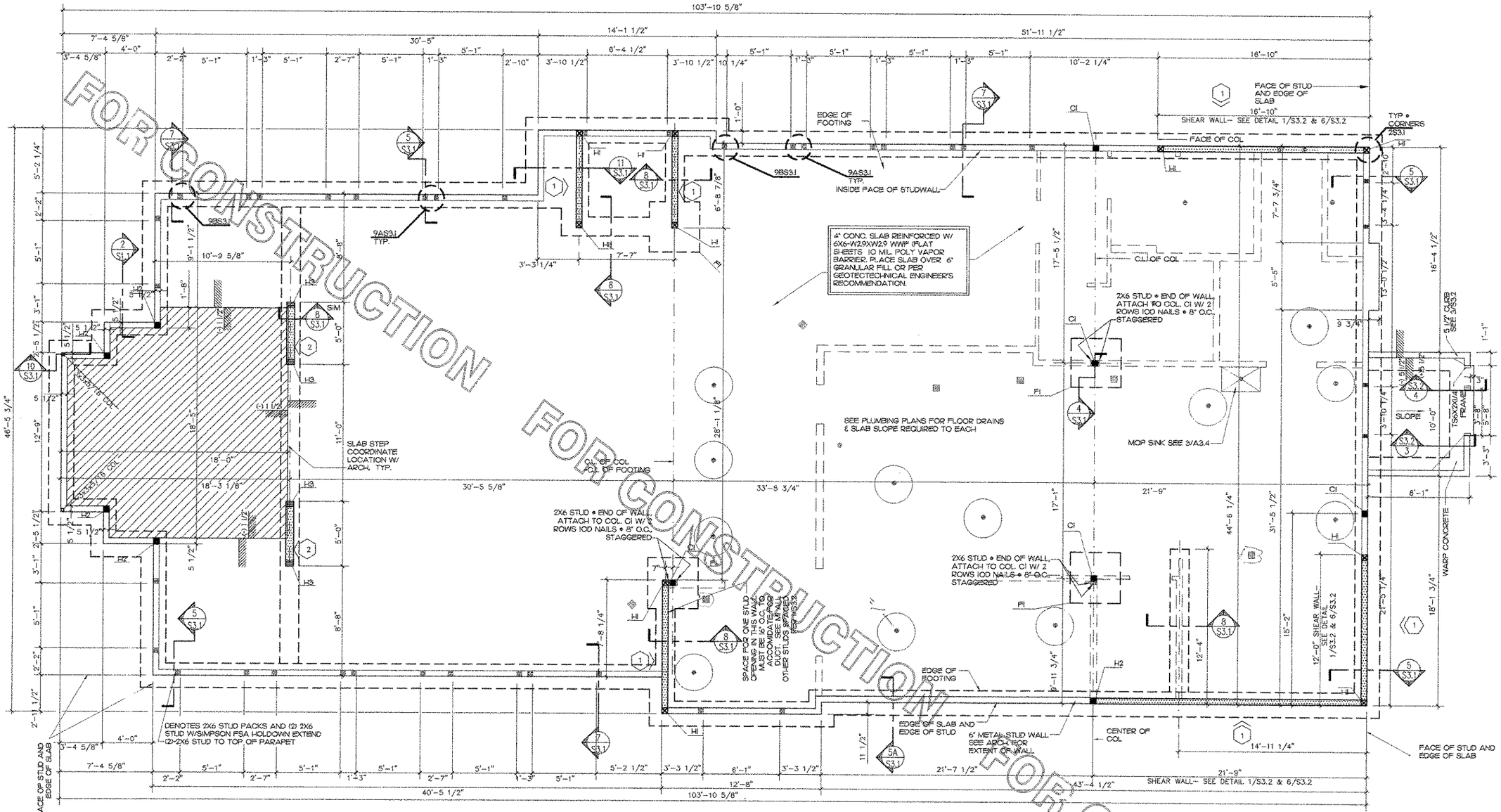
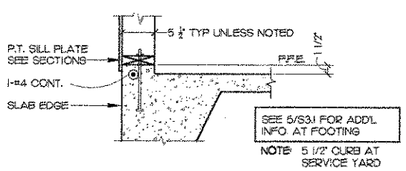


1 FOUNDATION PLAN

1/4"= 1'-0"



2 CURB DETAIL @ PLAYGROUND

1"= 1'-0"

MARK	SIZE (WOOD)	COLUMN BASE (SIMPSON)
CI	6X6	ABU66

3 COLUMN SCHEDULE

NONE

SYM	MARK	END POST	HOLDOWN (SIMPSON)	ANCHOR BOLT SIZE & EMBEDMENT
	H1	(3) 2X6	HDB8A	SEE DETAIL 3/S3.1
	H2	6X6	HDB8A	SEE DETAIL 3/S3.1
	H3	(3) 2X8	HDB8A	SEE DETAIL 3/S3.1

4 SHEARWALL HOLDOWN SCHED.

NONE

LEGEND:

	INDICATE SHEAR WALL. SEE 1/S3.2 FOR SHEAR WALL SCHEDULE.
#	SHEAR WALL #, SEE SCHEDULE 1/S3.2
	INDICATES FLOOR DRAIN FOR REFRENCE ONLY. SEE P1.1 FOR EXACT LOACATIONS SLOPE SLAB TO DRAIN FROM A 3'-0" DIA. AT A MAX. OF 2%
	PLUMBING & EQUIPMENT DRAINS FOR REFRENCE ONLY. SEE P1.1 FOR EXACT LOACATIONS

5 LEGEND

NONE

FOUNDATION NOTES:

1. BOTTOM OF EXTERIOR FTG. = 3'-0" BELOW FINISH GRADE ELEV. U.N.O.
2. SEE ARCH. DWG FOR ANY WALL LOCATIONS AND OR DIMENSIONS NOT SHOWN.
3. SEE DETAIL 1/S3.1 FOR SLAB CONTROL JOINTS.
4. ALL LOAD BEARING AND SHEAR WALLS ARE 2X6'S @ 16" O.C. TYPICAL U.N.O.
5. ALL SAW CUT CONTROL JOINTS SHALL BE COMPLETED WITHIN 12 HOURS AFTER FINISHING SLAB WITHOUT DISLODGING AGGREGATE.
6. ALL ANCHORS, SLIPS, STRAPS, ETC. WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" THICK SHALL BE SIMPSON ZMAX (G185), STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.
7. ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" DIAMETER SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS OR AN ENGINEER APROVED EQUAL.

5200 Buffington Rd.
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Chesterfield, MO

SHEET TITLE
FOUNDATION PLAN

DWG EDITION 05.9
REVISION –

Job No. : 06715
Store : 1976
Date : 5/26/06
Drawn By : CMZ
Checked By : DRC

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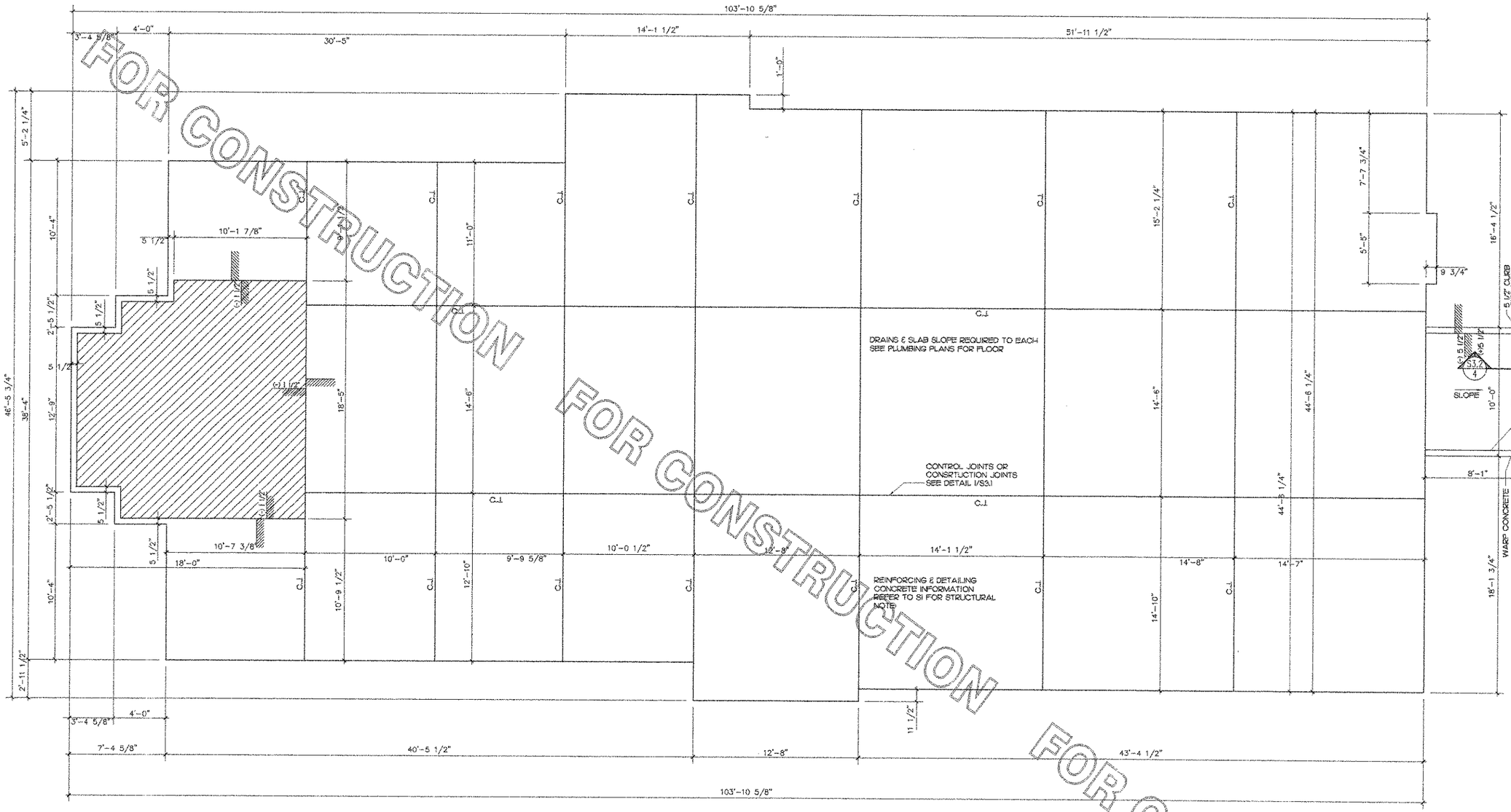

1 SLAB LAYOUT PLAN

1/4"= 1'-0"

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Mark	Date	By

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Chesterfield, MO

SHEET TITLE
SLAB
LAYOUT PLAN

DWG EDITION 05.9
REVISION —

Job No. : 06715
Store : 1976
Date : 5/26/06
Drawn By : CMZ
Checked By : DRC

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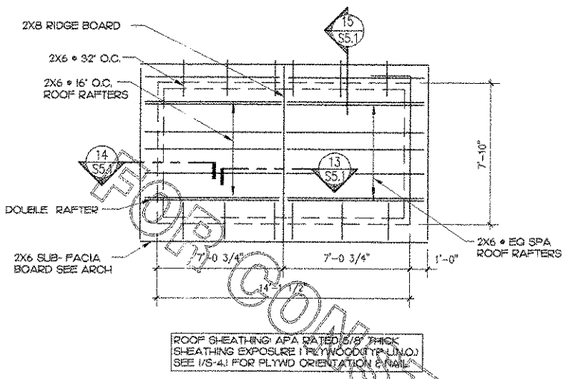
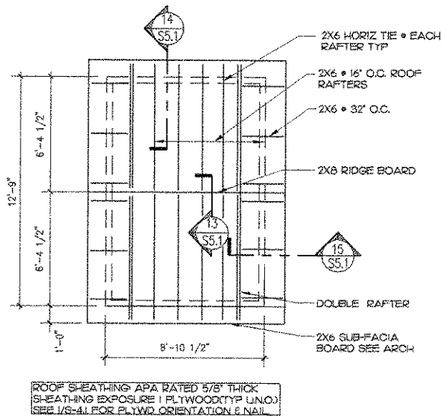


2 ENTRY TOWER ROOF FRAMING PLAN

SCALE: 1/4"= 1'-0"



3 PLAY TOWER ROOF FRAMING PLAN

SCALE: 1/4"= 1'-0"

4 FRAMING NOTES:

1) (+XX'-X") INDICATES TOP OF JOIST OR TRUSS ELEVATION.

2) PROVIDE (3) 2X10 HEADER ABOVE ALL WINDOW AND DOOR OPENINGS (U.N.O.) W/ 1/2" PLYWOOD BETWEEN GLUE AND SCREWED AT 6" O.C. TEB.

3) SEE DETAIL 1/S4.1 FOR ROOF NAILING.

4) SEE 2/S5.1 AND 3/S5.1 FOR TYP. HANGER DETAILS.

5) TRUSS AND JOIST MANUFACTURER SHALL DESIGN AND PROVIDE ALL ERECTION, PERMANENT, AND UPLIFT BRIDGING.

6) SPLICE LEDGERS PER DETAIL 9/S5.1

7) OPEN WEB TRUSSES, WOOD I-JOISTS, PSL AND LVL BEAMS SHALL BE AS MANUFACTURED BY TRUS JOIST 1-877-371-0445 - CONTACT HENRY GRUESEN

8) DIMENSIONS THIS SHEET ARE TO OUTSIDE FACE OF WOOD PARAPET STUD.

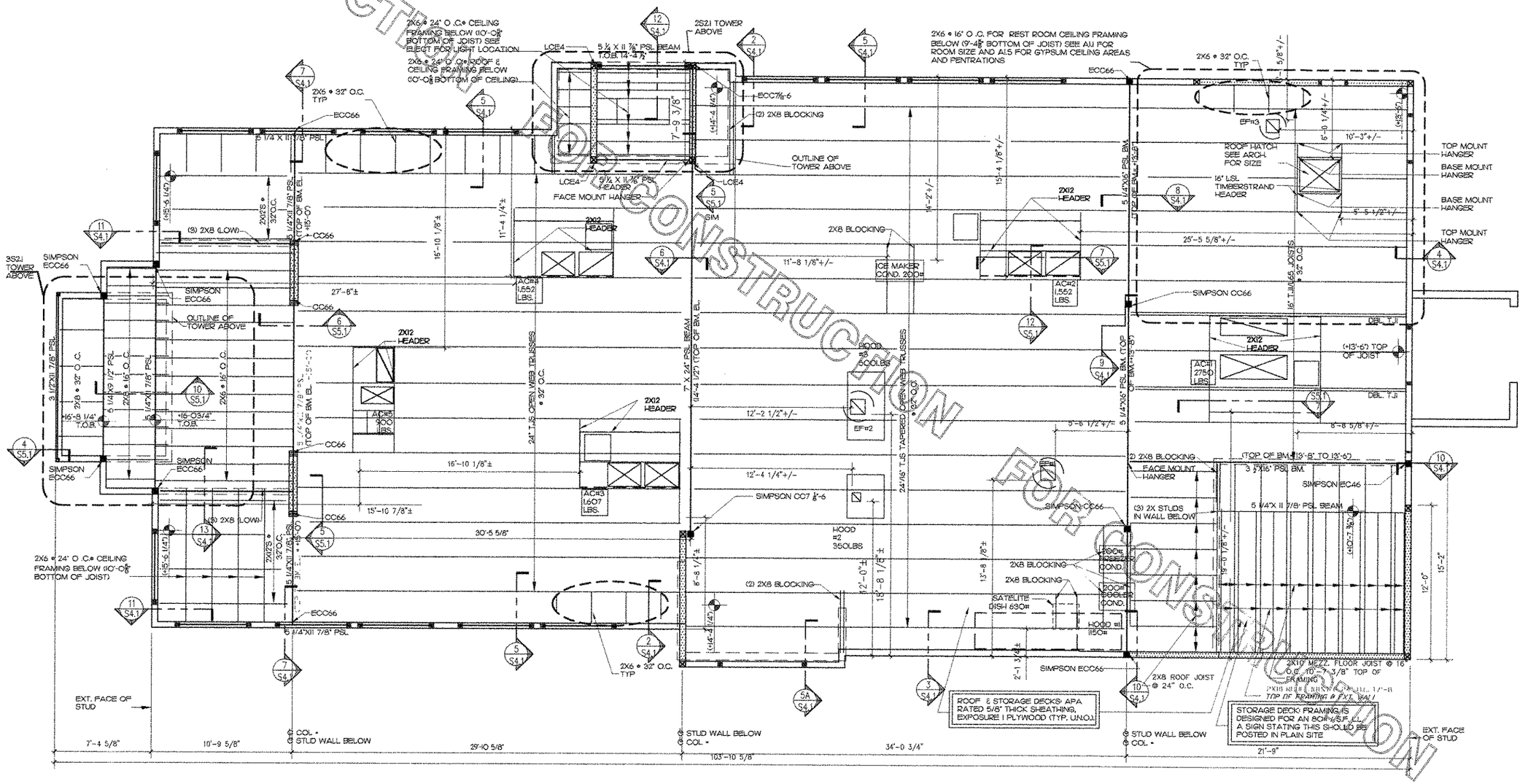
9) ROOF TOP UNIT DIMENSIONS ARE TO INSIDE FACE OF CURB. TO OUTSIDE FACE OF WOOD PARAPET STUD.

10) FOR ADDITIONAL NAILING REQUIREMENTS SEE SCHEDULE ON 2/S9.2

11) ALL ANCHORS, CLIPS, STRAPS & ETC. WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" THICK SHALL BE SIMPSON ZMAX (G185), STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.

12) ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" DIAMETER SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS OR AN ENGINEER APROVED EQUAL.

13) ALL DIMENSIONS TO ROOF TOP UNITS ARE APPROXIMATE. THE UNITS AND CURBS MUST BE LOCATED TO ALLOW PENETRATIONS TO AVOID CONFLICTS WITH FRAMING MEMBERS



1 ROOF FRAMING / WALL FRAMING PLAN

SCALE: 1/4"= 1'-0"

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Revisions:

Mark	Date	By

Seal

BRITTINGHAM & ASSOCIATES
STRUCTURAL ENGINEERS
5865 JIMMY CARTER BLVD. · SUITE 200
NORCROSS, GA. 30071 · 770/441-2340
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STORE
Chesterfield Commons
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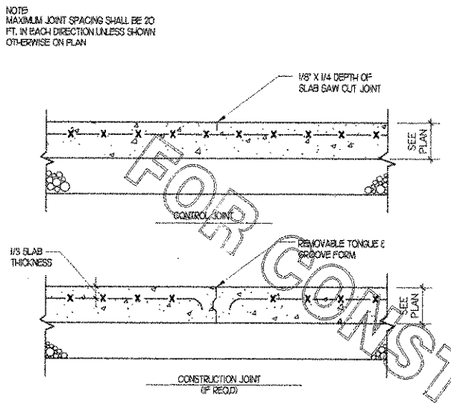
Chesterfield, MO

SHEET TITLE
ROOF FRAMING PLAN

DWG EDITION 05.9
REVISION –

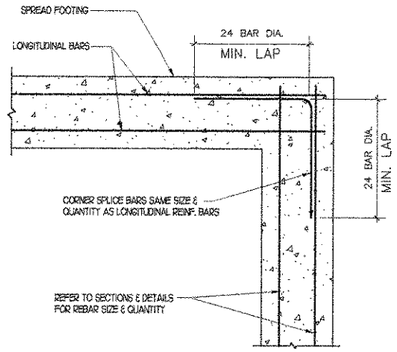
Job No. : 06715
Store : 1976
Date : 5/26/06
Drawn By : CMZ
Checked By: DRC

Sheet
S2.1



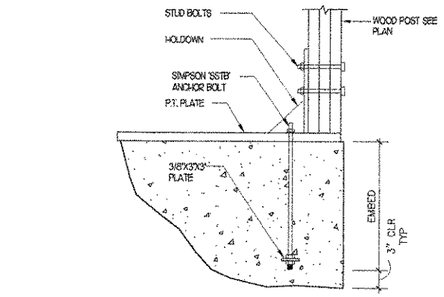
1 SLAB ON GRADE JOINTS

SCALE: NONE



2 TYP. CONTINUITY CORNER

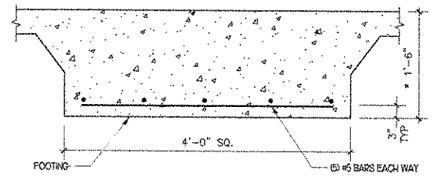
SCALE: NONE



HOLDOWN (SIMPSON)	ANCHOR BOLT SIZE	ANCHOR BOLT EMBED	NO. OF STUD BOLTS	STUD BOLT SIZE
HD5A	5/8" DIA.	10"	2	5/8" DIA.
HD8A	7/8" DIA.	10"	3	7/8" DIA.

3 HOLDDOWN DETAIL

SCALE: 1"=1'-0"



4 SECTION @ INT. FOOT.

SCALE: 1" = 1'-0"

5 5A SECTION @ EXTERIOR WALL

SCALE: 1" = 1'-0"

6 OPTIONAL SECTION @ EXTERIOR WALL (CMU STEM WALL)

SCALE: 1" = 1'-0"

7 SECTION @ STUD PACKS

SCALE: 1" = 1'-0"

8A 8 WALL FOOTING

SCALE: 1" = 1'-0"

DETAIL "A"

DETAIL "B"

9 WALL DETAILS

SCALE: 1" = 1'-0"

"A-A"

10 TS COL. SECTION

SCALE: 1" = 1'-0"

11 TYPICAL STEPOUT

SCALE: NONE

12 ANCHOR OPTION

SCALE: 1" = 1'-0"

FOR CONSTRUCTION

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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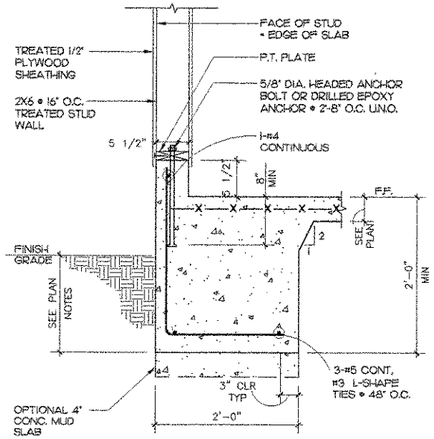
SHEARWALL SCHEDULE

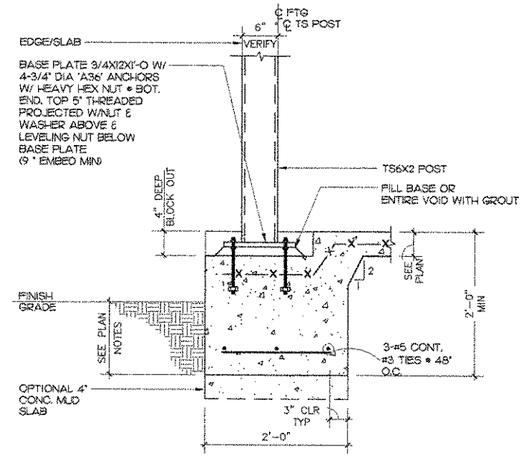
SYMBOL	PLYWOOD	FASTENER	FASTENER MIN PENE	FASTENER SPACING (SEE NOTE 2) PANEL EDGES	FASTENER SPACING (SEE NOTE 2) FIELD	FRAMING MEMBER	ANCHOR BOLTS SIZES & SPACING (SEE NOTE 1)	TOP CONNECTION (SIMPSON STRONG TIE)	SHEAR CAPACITY PLF	SEE DETAIL
1	1/2" STRUCT I APA RATED, EXT GRADE	10D NAIL	1 1/2"	4" O.C.	12" O.C.	2X6	5/8" DIA. A.B. @ 7'-6" O.C. MIN EMB=7"	N/A	430	6/S3.2
2	1/2" STRUCT I APA RATED, EXT GRADE	10D NAIL	1 1/2"	4" O.C.	12" O.C.	2X8	5/8" DIA. A.B. @ 7'-6" O.C. MIN EMB=7"	N/A	430	6/S3.2

1 SHEARWALL SCHEDULE
SCALE: NONE

NOTES:
1. PROVIDE 1/4X2 1/2X2 1/2 STEEL WASHER AT ANCHOR BOLTS.
2. ALL WOOD STRUCTURAL PANEL DIAPHRAGM NAILS SHALL BE PLACED NOT LESS THAN 1/2 INCH FROM THE PANEL EDGES AND NOT LESS THAN 3/8 INCH FROM THE EDGE OF CONNECTING MEMBERS FOR SHEAR GREATER THAN 300 PLF.
3. PROVIDE 3X INTERMEDIATE AT PLYWOOD EDGES.
4. DESIGNATED HOLDOWN ANCHORS ARE 'SIMPSON STRONG TIE'.



3 SECTION
SCALE: 1"= 1'-0"



4 SECTION
SCALE: 1" = 1'-0"

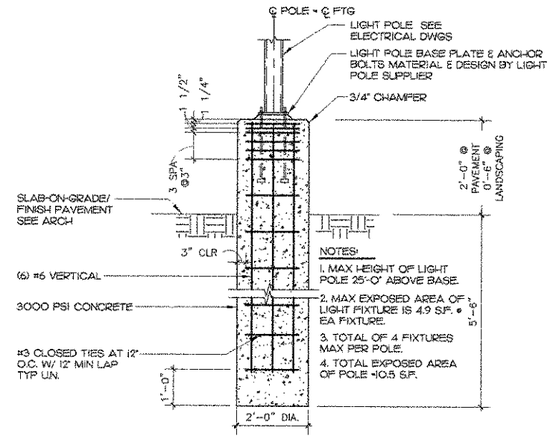
NAILING SCHEDULE

CONNECTION	FASTENER	NUMBER OR SPACING
JOIST TO BAND JOIST FACE NAIL	16D COMMON	3
JOIST TO SILL OR GIRDER TOE NAIL	8D COMMON	3
BRIDGING TO JOIST TOE NAIL EACH END	8D COMMON	2
LEDGER STRIP	16D COMMON	3 AT EACH JOIST
1X6 SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	8D COMMON	2
OVER 1X6 SUBFLOOR TO EACH JOIST, FACE NAIL	8D COMMON	3
2-INCH SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL	8D COMMON	2
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16D COMMON	16" O.C.
TOP OR SOLE PLATE TO STUD, END NAILED	16D COMMON	2
STUD TO SOLE PLATE, TOE NAIL	10D COMMON	4
DOUBLED STUDS, FACE NAIL	10D COMMON	24" O.C.
DOUBLED TOP PLATES, FACE NAIL	10D COMMON	16" O.C.
TOP PLATES, LAP AND INTERSECTIONS FACE NAIL	---	2-16D OR 3-10D COMMON
CONTINUOUS HEADER, TWO PIECES	16D COMMON	16" O.C. ALONG EACH EDGE
CEILING JOISTS TO PLATES, TOE NAIL	8D COMMON	3
CONTINUOUS HEADER TO STUD, TOE NAIL	8D COMMON	3
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	---	3-16D OR 4-10D COMMON
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	---	3-16D OR 4-10D COMMON
RAFTER TO PLATE, TOE NAIL	8D COMMON	3
1-INCH BRACE TO EACH STUD & PLATE, FACE NAIL	8D COMMON	2
1X8 SHEATHING OR LESS TO EACH BEARING, FACE NAIL	8D COMMON	2
OVER 1X8 SHEATHING TO EACH BEARING, FACE NAIL	8D COMMON	3
BUILT-UP CORNER STUDS EACH BEARING, FACE NAIL	16D COMMON	24" O.C.
BUILT-UP GIRDERS & BEAMS, OF THREE MEMBERS	20D COMMON	32" O.C. AT TOP & BOTTOM & STAGGERED 2 ENDS & AT EACH SPLICE
2-INCH PLANKS	16D COMMON	2 EACH BEARING
STUDS TO SOLE PLATE, END NAIL	16D COMMON	2 EACH END

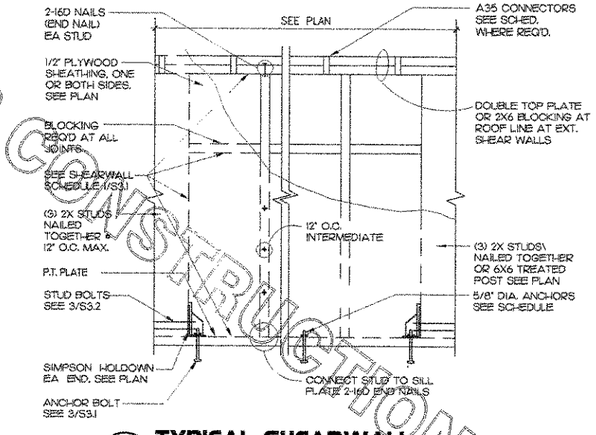
2 NAILING SCHEDULE

"PLYWOOD AND O.S.B. BOARD ROOF & WALL SHEATHING"		
1/2" OR LESS	6D COMMON	6" O.C. EDGES AND 12" O.C. INTERMEDIATE
19/32" OR GREATER	8D COMMON	6" O.C. EDGES AND 12" O.C. INTERMEDIATE
5/16", 1/2"	16 GA GALVANIZED WIRE STAPLES, 3/8" MINIMUM CROWN	4" O.C. EDGES AND 8" O.C. INTERMEDIATE
19/32", 3/4"	LENGTH OF 1" PLUS PLYWOOD OR PARTICLEBOARD THICKNESS	2" O.C. EDGES AND 5" O.C. INTERMEDIATE
"FIBERBOARD AND GYPSUM SHEATHING"		
1/2" FIBERBOARD SHEATHING	1 1/2" GALVANIZED ROOFING NAIL 6D COMMON WALL	3" O.C. AT EDGES 6" O.C. AT OTHER BEARING
25/32" FIBERBOARD SHEATHING	1 3/4" GALVANIZED ROOFING NAIL 8D COMMON WALL	3" O.C. AT EDGES 6" O.C. AT OTHER BEARING
1/2" GYPSUM SHEATHING	11 GA 1 1/2" GALVANIZED 7/16" HEAD	4" O.C. AT EDGES 8" O.C. AT OTHER BEARING
5/8" GYPSUM SHEATHING	11 GA 1 3/4" GALVANIZED 7/16" HEAD	4" O.C. AT EDGES 8" O.C. AT OTHER BEARING
1/2" GYPSUM WALLBOARD	1 3/8" DRY- WALL NAIL	7" O.C. ON CEILING 8" O.C. ON WALLS
5/8" GYPSUM WALLBOARD	1 1/2" DRY- WALL NAIL	7" O.C. ON CEILING 8" O.C. ON WALLS

NOTE:
1. PROVIDE 1/2" THK STRUCT I PLYWOOD SHEATHING W/ 8D NAILS @ 6" O.C. @ PANEL EDGES, @ 12" O.C. @ FIELD AT EXT FACE FOR ALL EXTERIOR WALL @ EXTERIOR FACES(INCLUDING CANOPIES) NOT DESIGNATED AS SHEAR WALL.
2. PROVIDE 1/2" THK STRUCT I PLYWOOD SHEATHING W/ 8D NAILS @ 6" O.C. @ PANEL EDGES, @ 12" O.C. @ FIELD FOR EAVES AND CANOPY CEILING.



5 LIGHT POLE BASE DETAIL
SCALE: NONE



6 TYPICAL SHEARWALL
SCALE: NONE

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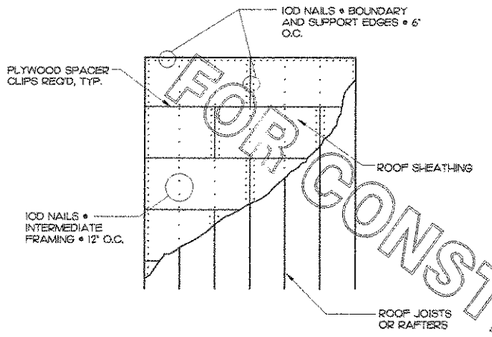
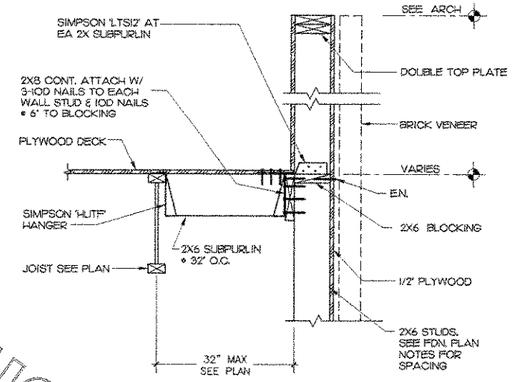


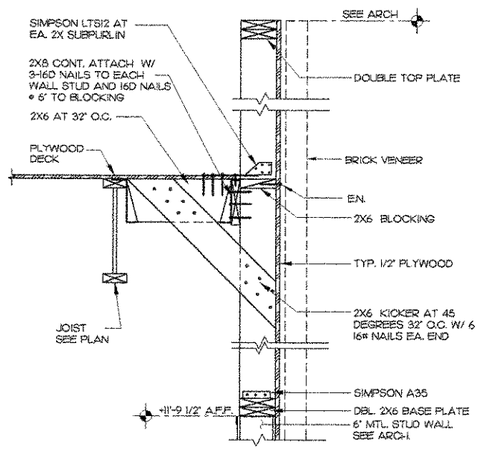
1 ROOF DIAPHRAGM NAILING

SCALE: NONE



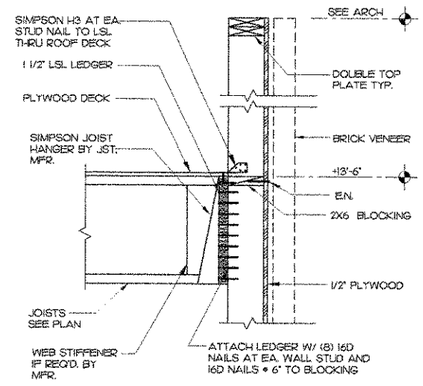
2 SECTION

SCALE: 1" = 1'-0"



3 SECTION-SIDE WALL

SCALE: 1"= 1'-0"



4 SECTION-REAR WALL

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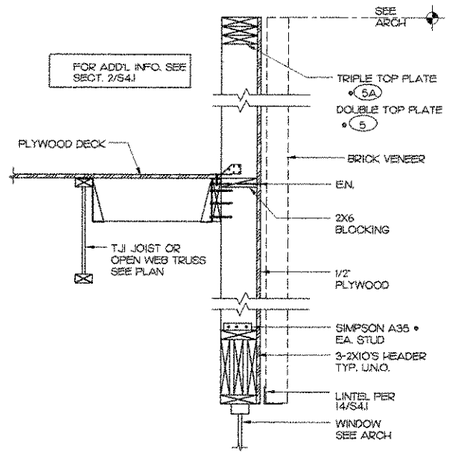
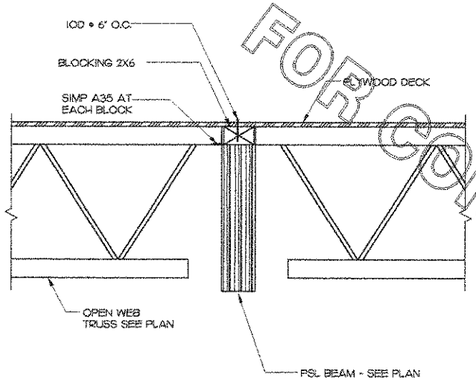


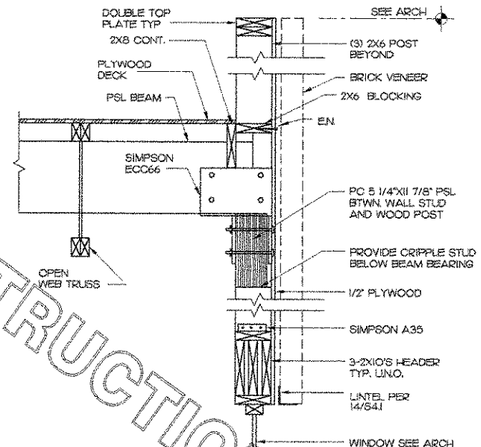
5 5A SECTION-SIDE WALL

SCALE: 1"= 1'-0"



6 SECTION @ BEAM

SCALE: 1"= 1'-0"



7 SECTION

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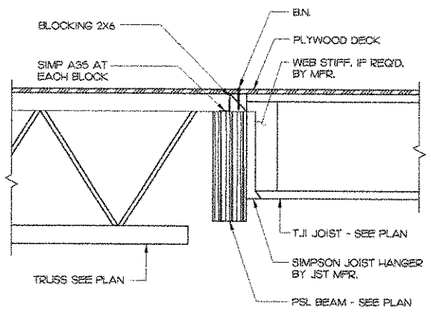

8 SECTION @ PSL BEAM

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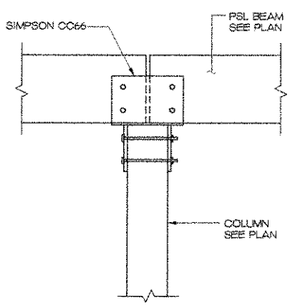

9 SECTION

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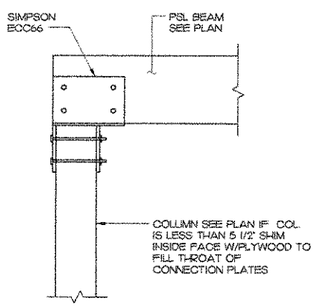
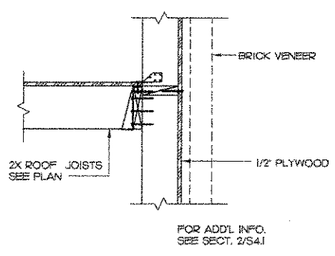


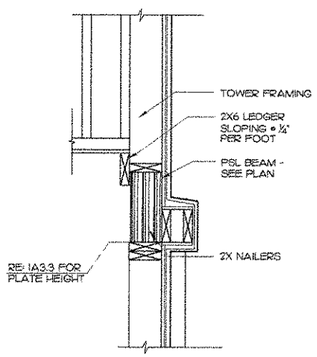
10 SECTION @ COLUMN

SCALE: NONE



11 SECTION @ SIDE WALL

SCALE: NONE



12 SECTION @ ENTRY

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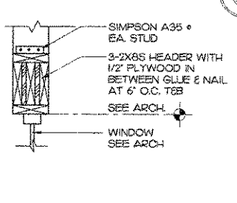

13 SECTION

SCALE: 1" = 1'-0"

4" BRICK VENEER	
OPENING SIZE	LINTEL
UP TO 6'-0"	L4X4X5/16
6'-1" TO 8'-0"	L6X4X3/8 LLV
8'-0" TO 10'-0"	L6X4X3/8 LLV
10'-1" TO 12'-0"	L7X4X3/8 LLV

PROVIDE MIN. 8" BEARING ON EACH SIDE OF OPENING

14 STANDARD LINTEL SCHEDULE

SCALE: NONE

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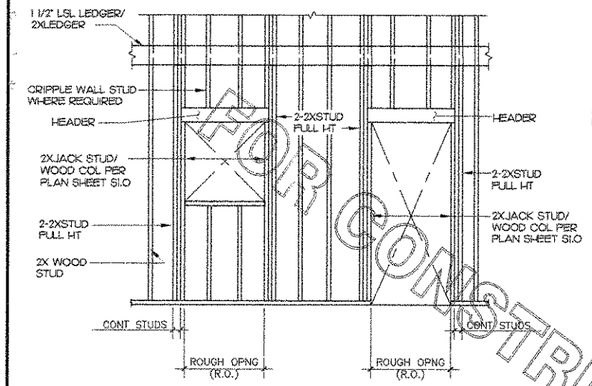
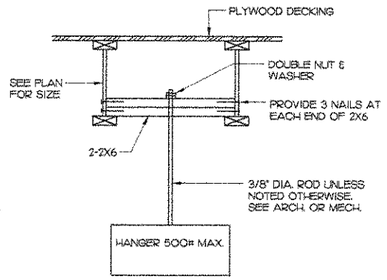


1 TYPICAL FRAMING ELEVATION

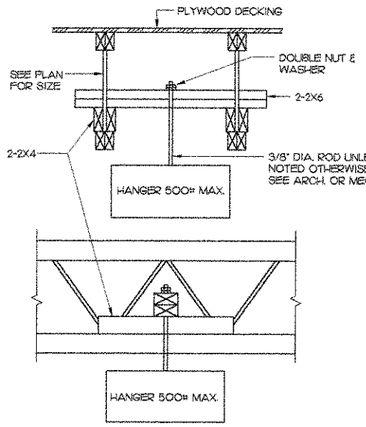
SCALE: NONE



2 TYPICAL HANGER DETAIL

AT TJI JOISTS

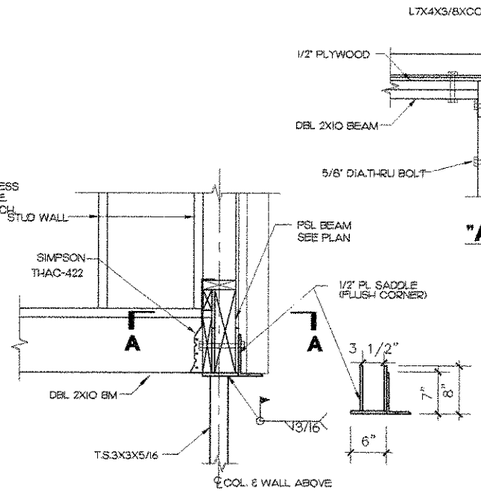
SCALE: NONE



3 TYP HANGER DETAIL

AT OPEN WEB TRUSSES

SCALE: NONE



4A SECTION @ T.S. COLUMN

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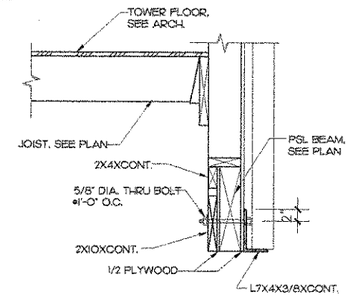
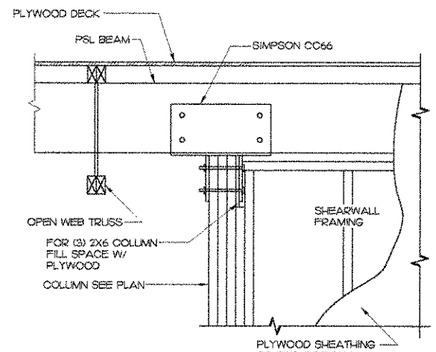


4B SECTION BET. TS COL.

SCALE: 1" = 1'-0"



5 ELEVATION @ COLUMN

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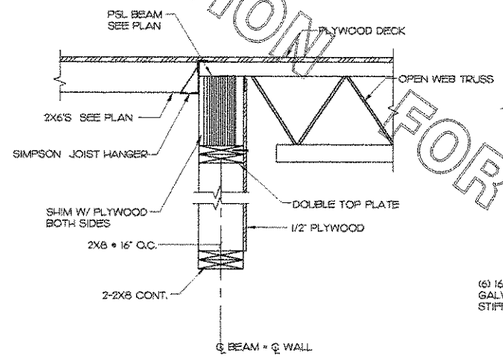
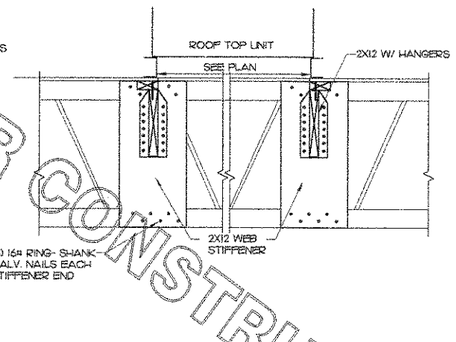


6 SECTION

SCALE: 1" = 1'-0"

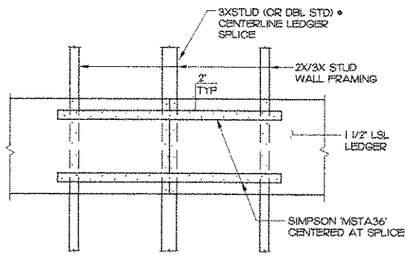


7 TYP RTU FRAMING DETAIL

SCALE: NONE

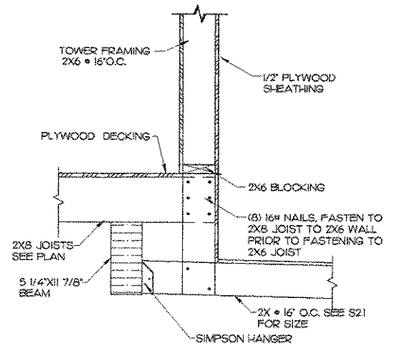
8 NOT USED

SCALE: 1"=1'-0"



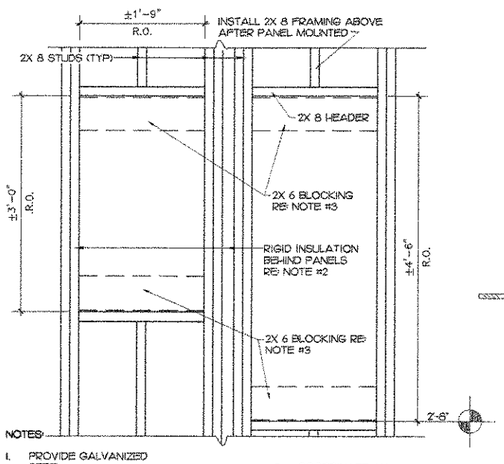
9 SPLICE DETAIL

SCALE: NONE



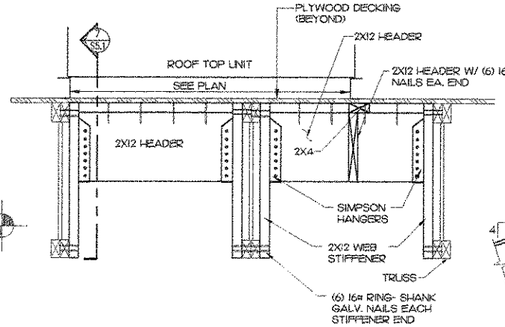
10 SECTION

SCALE: 1"=1'-0"



11 FRAMING ELEV. @ ELECT. PANELS

SCALE: NTS



12 TYP RTU FRAMING SECTION

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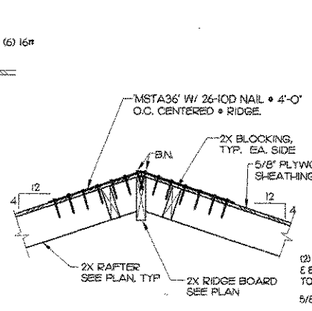
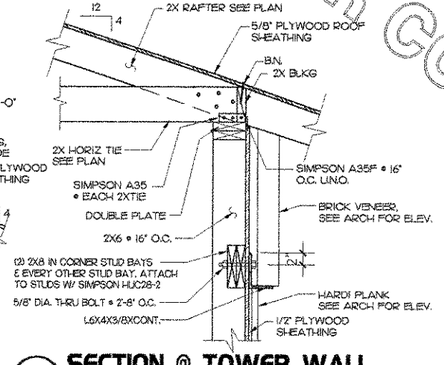


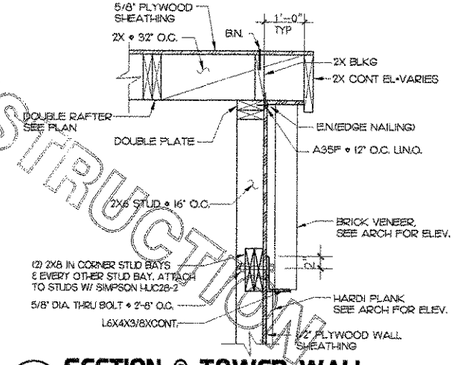
13 SECTION

SCALE: 1"= 1'-0"



14 SECTION @ TOWER WALL

SCALE: 1"=1'-0"



15 SECTION @ TOWER WALL

SCALE: 1"= 1'-0"

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Revisions:

Mark	Date	By

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Chesterfield, MO

SHEET TITLE
FRAMING DETAILS

DWG EDITION 05.9
REVISION —

Job No. : 06715
Store : 1976
Date : 5/26/06
Drawn By : CMZ
Checked By: DRC

Sheet
S5.1

FOR CONSTRUCTION

DESIGN AND CODE INFORMATION

1. BUILDING STRUCTURE HAS BEEN DESIGNED TO THE FOLLOWING BUILDING CODES:
   IBC 2003 EDITION.
2. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE LOCAL BUILDING CODE.
3. VERIFY EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS WHICH DO NOT COMPLY WITH PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS BY THE CONTRACTOR.
4. CONTRACT DOCUMENTS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.
5. THE STRUCTURE IS UNSTABLE UNTIL ALL LOAD BEARING WALLS ARE ERECTED AND STEEL MEMBERS ARE ERECTED, CONNECTIONS ARE COMPLETELY BOLTED AND/OR WELDED AND INSPECTED, THE PLYWOOD DECK ATTACHED TO THE WOOD FRAMING, AND THE CONCRETE FLOORS PLACED AND ATTAINS 75% OF 28-DAY STRENGTH. UNTIL SUCH TIME, TEMPORARY BRACING IS REQUIRED. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
7. STRUCTURAL DESIGN LOADS: LOCAL REQUIREMENTS:
   IBC 2003 EDITION

   ROOF LOADS:
   ROOF DEAD LOAD: 14 PSF - MAIN ROOF

   ROOF LIVE LOADS: 20 PSF

   GROUND SNOW LOAD: 20 PSF
   CE = 0.9 CS = 1.0 I = 1.0
   FLAT ROOF SNOW LOAD = 20 PSF
   WIND LOADS:
   3 SECOND GUST WIND SPEED: 90 MPH
   I = 1.0
   EXPOSURE: B

   SEISMIC LOADS:
   SITE = D FA = 1.4 FV = 2.1
   I = 1.0 SDS = 0.475G SD1 = 0.239G
   R = 6
   SS = 0.513G S1 = 0.169G
   SEISMIC DESIGN CATEGORY D
   BEARING WALL WITH WOOD SHEAR WALLS EQUIVALENT
   LATERAL FORCE PROCEDURE
   SEISMIC BASE SHEAR, V=16 KIPS

SPECIAL INSPECTIONS AND TESTING

1. THE CONTRACTOR SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM THE FOLLOWING ON SITE INSPECTIONS AND TESTING:
   FOUNDATIONS: PER SECTION 1802.2 OF IBC 2003
2. THE CONTRACTOR SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM THE FOLLOWING FABRICATION INSPECTION AND TESTING PER SECTION OF IBC 2003:
   WOOD JOISTS IF FABRICATOR IS NOT ICBO CERTIFIED.

STRUCTURAL OBSERVATIONS

1. THE OWNER SHALL EMPLOY A LICENSED STRUCTURAL ENGINEER OR ARCHITECT TO PERFORM PERIODIC VISUAL OBSERVATIONS OF THE STRUCTURE DURING CONSTRUCTION FOR GENERAL CONFORMANCE TO THE DESIGN DRAWINGS.

FOUNDATION NOTES

1. FOUNDATION DESIGN IS BASED ON THE FOLLOWING ASSUMPTIONS. A GEOTECHNICAL ENGINEER SHALL BE EMPLOYED PRIOR TO THE START OF CONSTRUCTION TO INVESTIGATE SUBSURFACE CONDITIONS. IF THE GEOTECHNICAL REPORT INDICATES THAT THESE ASSUMPTIONS LISTED BELOW ARE INCORRECT PLEASE NOTIFY ENGINEER IMMEDIATELY.
2. INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 1500 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 1500 PSF. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED. LIGHT POLE FOOTINGS ARE DESIGNED BASED ON A MINIMUM OF 150 PSF/FT SOIL PASSIVE PRESSURE.
3. THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 3'-0" MINIMUM BELOW FINISHED GRADE.
4. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 4 INCH THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS PER GEOTECHNICAL ENGINEER RECOMMENDATIONS.
5. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.

REINFORCED CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," (ACI 318-02).
2. REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60).
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WITH WIRES CONFORMING TO ASTM A82.
4. THE COMPRESSIVE STRENGTH AT 28 DAYS OF ALL CAST IN PLACE CONCRETE SHALL BE:
   3000 PSI - ALL CONCRETE (SEE CIVIL DRAWINGS FOR SITE CONCRETE STRENGTH REQUIREMENTS).
5. LAP SPLICES FOR REINFORCING BARS SHALL BE CLASS B IN ACCORDANCE WITH ACI 318-02, UNLESS NOTED OTHERWISE.
6. CLEAR CONCRETE COVER FOR REINFORCING STEEL:

MASONRY WALLS:	LOCATE IN CENTER OF WALL (U.N.O.)
FOOTINGS	2" FORMED EDGES
	3" CAST AGAINST GROUND

7. THE LONGITUDINAL REINFORCING STEEL IN BOND BEAMS, WALLS, AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.
8. MECHANICAL VIBRATORS SHALL VIBRATE ALL CONCRETE.
9. UNLESS OTHERWISE DIRECTED BY THE OWNER, CONCRETE SLABS SHALL BE FINISHED TO THE FOLLOWING FLATNESS CRITERIA:

   SPECIFIED OVERALL F NUMBERS
   FLATNESS, FF = 20
   LEVELNESS, FL = 15
   MINIMUM LOCAL F NUMBERS
   FLATNESS, FF = 15
   LEVEL, FL = 10

10. JOINT REINFORCING - TRUSS TYPE, 9 GAUGE SPACED VERTICALLY AT 8" BELOW SLAB AND AT 16" UNLESS NOTED OTHERWISE AND CONFORM TO ASTM A82.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC "MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN" NINTH EDITION.
2. STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL BE 3/4 INCH DIAMETER MINIMUM AND SHALL BE ASTM A-325-N, UNLESS NOTED OTHERWISE.
3. USE DIRECT TENSION INDICATORS AND HARDENED WASHERS WITH ALL HIGH STRENGTH BOLTS OR USE LOAD INDICATOR BOLTS.
4. ANCHOR BOLTS SHALL BE ASTM A-307 HEADED BOLTS. MINIMUM ANCHOR BOLT EMBEDMENT SHALL BE 12 BOLT DIAMETERS UNLESS NOTED OTHERWISE. CLEAN ANCHOR BOLTS OF ALL GREASE, DIRT, ETC., BEFORE INSTALLATION.
5. WELDS SHOWN ON THE STRUCTURAL DRAWINGS ARE THE MINIMUM REQUIRED BY DESIGN. THE FABRICATOR'S DRAWINGS SHALL SHOW WELDS AND THEY SHALL CONFORM TO AWS SPECIFICATIONS. ALL WELDING SHALL BE DONE WITH E-70 SERIES ELECTRODES.
6. HARDENED WASHERS SHALL BE INSTALLED OVER SHORT SLOTTED OR OVERSIZE HOLES OCCURRING IN AN OUTER PLY OF A CONNECTION.
7. PAINT ALL STRUCTURAL STEEL WITH ONE COAT OF RED OXIDE RUST-INHIBITIVE PRIMER 2.5 MILS IN THICKNESS. THE COMPATIBILITY OF PRIMER AND ANY TOP COAT SHALL BE VERIFIED BEFORE ANY PAINTING IS PERFORMED. TOUCH-UP ALL EXPOSED METAL AFTER FIELD INSTALLATION. ALL STRUCTURAL STEEL WHICH IS EXPOSED TO THE ELEMENTS SHALL RECEIVE TWO COATS OF EXTERIOR ENAMEL WHICH IS COMPATIBLE WITH THE PRIMED SURFACE.
8. SUBMIT SHOP DRAWINGS CONFIRMING THAT THE CONNECTIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE AISC CODES SPECIFIED HEREIN. THE SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAILS AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS. SHOP DRAWINGS SHALL INCLUDE NUMBER, SPACING, AND DISTANCE FROM BEAM CENTERLINE OF SHEAR STUDS. SUBMIT ONE REPRODUCIBLE SEPIA AND TWO BLUELINE PRINTS OF EACH DRAWING. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.

CONCRETE MASONRY

1. REINFORCED CONCRETE MASONRY SHALL BE INSPECTED BY A TESTING AGENCY IN ACCORDANCE WITH ACI-530 TABLE 1.14.1.4 LEVEL 2 QUALITY ASSURANCE.
2. MASONRY WALL CONTROL JOINTS SHALL BE LOCATED AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
3. CONCRETE MASONRY SHALL CONFORM TO THE NATIONAL CONCRETE MASONRY ASSOCIATION SPECIFICATIONS, AND HAVE A DENSITY OF 125 PCF AND SHALL HAVE A MINIMUM PRISM STRENGTH (F'M) OF 1500 PSI.
4. GROUT FOR FILLING CONCRETE MASONRY CELLS SHALL CONFORM TO STANDARD SPECIFICATIONS FOR "MORTAR AND GROUT FOR REINFORCED MASONRY," ASTM C-476, AND SHALL HAVE A COMPRESSIVE PRISM STRENGTH (F'M) OF 3000 PSI AT 28 DAYS. THE SLUMP SHALL BE BETWEEN 9 INCHES AND 11 INCHES. WHERE THE MINIMUM DIMENSION OF ANY CONTINUOUS VERTICAL CELL IS 3 INCHES OR LESS, USE FINE GROUT. OTHERWISE USE COARSE (PEA GRAVEL) GROUT.
5. MORTAR FOR CONCRETE MASONRY SHALL BE TYPE "S" AND SHALL CONFORM TO ASTM C-270.
6. MASONRY CONSTRUCTION SHALL BE BUILT IN LIFTS NOT TO EXCEED 4 FEET PRIOR TO GROUTING CORES. KEY NEXT GROUT LIFT INTO PRIOR LIFT BY STOPPING FIRST LIFT 2" BELOW TOP OF BLOCK.
7. ALL REINFORCING BARS IN FILLED CELLS SHALL BE DOWELED INTO FOOTINGS WITH STANDARD 90-DEGREE HOOKS AND DOWELED 7 INCHES INTO BOND BEAMS AT TOP OF WALLS.
8. MASONRY LAP SPLICES SHALL BE 48 BAR DIAMETERS (U.N.O.)
9. REINFORCEMENT IN WALLS SHALL BE PLACED IN THE CENTER OF THE WALL UNLESS NOTED OTHERWISE.
10. JOINT REINFORCING - TRUSS TYPE, 9 GAUGE SPACED VERTICALLY AT 8" BELOW SLAB AND AT 16" UNLESS NOTED OTHERWISE AND CONFORM TO ASTM A82.

WOOD JOISTS

1. ROOF JOISTS SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADS:
   14 PSF DEAD LOAD
   20 PSF SNOW LOAD PLUS DRIFT PER ASCE 7-02 WHERE APLICABLE
2. IN ADDITION TO THE UNIFORM LOADING SPECIFIED FOR JOISTS DESIGN, THE JOISTS SUPPLIER SHALL INCLUDE ANY CONCENTRATED LOADS CAUSED BY ARCHITECTURAL FEATURES OR MECHANICAL EQUIPMENT IN THE JOISTS DESIGN.
3. SEE ARCHITECTURAL DRAWINGS FOR BEARING CONDITIONS AND DIMENSIONS OF JOISTS.
4. A REGISTERED ENGINEER IN THE STATE OF WHERE THE PROPERTY IS LOCATED SHALL DESIGN JOISTS. SHOP DRAWINGS, INCLUDING JOISTS DESIGNS AND LAYOUT, BEARING THE ENGINEER'S SEAL SHALL BE SUBMITTED FOR REVIEW.
5. JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH APPLICABLE STANDARDS.
6. UNLESS NOTED OTHERWISE ON DRAWINGS, JOISTS SUPPLIER SHALL BE RESPONSIBLE FOR DESIGNING AND SUPPLYING ALL TEMPORARY AND PERMANENT BRACING REQUIRED BY DESIGN. ALL JOIST-TO-JOIST CONNECTIONS, AND ALL UPLIFT CONNECTIONS AT BEARING LOCATIONS.

LUMBER FRAMING

1. ALL NON-PREFABRICATED LOAD BEARING FRAMING MEMBERS SHALL BE #2 SOUTHERN YELLOW PINE 19% MOISTURE CONTENT UNLESS OTHERWISE NOTED.
2. STUDS IN LOAD BEARING WALLS MAY BE DOUGLAS FIR, SOUTHERN YELLOW PINE OR SPRUCE (#2 OR CONSTRUCTION GRADE), UNLESS NOTED OTHERWISE.
3. ALL PLYWOOD SHEATHING SHALL BE APA RATED, SEE PLAN.
4. LVL AND PSL LUMBER SHALL BE MICRO.LAM OR PARALLAM LUMBER AS MANUFACTURED BY TRUS JOIST.
5. WOOD I JOIST SHALL BE MANUFACTURED BY TRUS JOIST.
6. WOOD CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE CONNECTORS, INC.

COLD-FORMED METAL FRAMING

1. ALL FRAMING MEMBERS SHALL BE THE SIZE SHOWN ON THE DRAWINGS AND SPECIFICATIONS. ALL METAL STUDS SHALL BE 18 GA.
2. ALL FRAMING MEMBERS SHALL BE MANUFACTURED FROM GALVANIZED STEEL.
3. GALVANIZED STEEL USED IN THE MANUFACTURE OF JOISTS, STUDS AND LINTELS SHALL CONFORM TO ASTM DESIGNATION A446 GRADE C (MINIMUM YIELD POINT 40000 PSI) WITH HOT DIPPED GALVANIZED COATING.
4. GALVANIZED STEEL RUNNER TRACK AND MISCELLANEOUS ACCESSORIES SHALL BE FORMED WITH MATERIAL MEETING REQUIREMENTS OF ASTM DESIGNATION A446 GRADE A (MINIMUM YIELD POINT 33000 PSI) WITH HOT DIPPED GALVANIZED COATING.
5. STRUCTURAL DESIGN SHALL BE IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
6. CARE SHALL BE EXERCISED AT ALL TIMES TO AVOID DAMAGE THROUGH CARELESS HANDLING DURING UNLOADING, STORING, AND ERECTION OF FRAMING MEMBERS AND SUB-ASSEMBLIES.
7. THE ENDS OF JOISTS SHALL BE REINFORCED TO ADEQUATELY STIFFEN THE JOIST WEB AND TO TRANSFER THE LOADS TO THE SUPPORTS. MINIMUM END BEARING SHALL BE 1-1/2 INCHES.
8. STUDS SHALL SIT SQUARELY IN THE TOP AND BOTTOM RUNNER TRACK WITH FIRM ABUTMENT AGAINST TRACK WEBS. STUDS SHALL BE ALIGNED OR PLUMBED AND SECURELY FASTENED TO THE FLANGES OF BOTH TOP AND BOTTOM RUNNER TRACK. STUDS SHALL BE POSITIONED IN RUNNER TRACK SO AS TO BE ALIGNED DIRECTLY BELOW FLOOR JOIST OR CEILING FRAMING MEMBERS OVERHEAD. IF UNABLE TO CENTER AND DIRECTLY TRANSFER LOADS FROM FLOOR OR ROOF FRAMING (SUCH AS AT OPENINGS) TO THE STUDS, LINTELS SHALL BE PROVIDED.
9. JOINING OF FRAMING MEMBERS SHALL BE MADE WITH SELF-DRILLING SCREWS OR WELDING. WIRE TYING OF FRAMING MEMBERS IN STRUCTURAL APPLICATIONS SHALL NOT BE PERMITTED.
10. HORIZONTAL STEEL STRAPPING, WHEN REQUIRED BY THE APPLICABLE TABLES, SHALL BE A) FASTENED TO THE BOTTOM FLANGE OF THE STEEL JOIST AND B) ATTACHED TO BOTH SIDES OF ALL STUDS. STRAPPING SHALL BE INSTALLED AND SECURELY ANCHORED TO SUITABLE RESTRAINING COLUMNS OR WALLS PRIOR TO THE ERECTION OF STRUCTURE ABOVE.
11. SPLICES IN STEEL JOISTS AND STUDS SHALL NOT BE PERMITTED.
12. DURING ERECTION, THE BUILDER SHALL PROVIDE MEANS OF ADEQUATE DISTRIBUTION OF CONCENTRATED LOADS SO THAT THE LOAD CARRYING CAPACITY OF ANY STEEL FRAMING MEMBER IS NOT EXCEEDED.

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Revisions:

Mark	Date	By

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SHEET TITLE
STRUCTURAL NOTES

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Drawn By : CMZ
Checked By: DRC

Sheet
S6.1

MECHANICAL EQUIPMENT COMPONENTS EARTHQUAKE LOAD RESISTANCE

SEISMIC USE GROUP (I) SEISMIC DESIGN CATEGORY (D)

LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS			COMMENTS
					ON CONST DOCUMENTS	SUBSEQUENT SUBMITTAL		
	Not Provided For Project	Provided For Project	Not Provided For Project	Provided For Project	Drawing No. or Spec Section	Shop Drawings	Separate Permit & Plans	
FIRE PROTECTION, DETECTION & ALARM EQUIPMENT, SYSTEM COMPONENTS	√		√					1
GREASE EXHAUST SYSTEMS		√		√	4/M3-2, 6/M3-2, 7/M3-2, 8/M3-2			2
OTHER EQUIPMENT & SYSTEM COMPONENTS NEEDED FOR CONTINUED OPERATION OF SEISMIC USE GROUP III FACILITIES OR WHOSE FAILURE COULD IMPAIR THEIR CONTINUED OPERATION	√		√					1
• AIR TERMINAL DEVICES • RF EXHAUST FAN • ROOFTOP UNITS • REFRIGERATION COND UNITS • A/C DUCT				√	I/M3-1 5/M3-2 II/M3-1, 1/M3-2 2/M3-2, 3/M3-2 N/A			3 4 5 6 8

1) NOT APPLICABLE TO THIS PROJECT.
2) IP = 1.5 FOR GREASE EXHAUST SYSTEMS.
3) AIR TERMINAL DEVICES ARE SECURED TO THE GRID.
4) UNIT WEIGHT LESS THAN 400 LBS. FLEXIBLE CONNECTOR PROVIDED.
5) ROOFTOP UNIT ATTACMENTS PROVIDED.
6) REFRIGERATION UNITS AND RACK ATTACHMENTS PROVIDED.
7) A/C DUCT IS LESS THAN 6 SQ FT.

KEY NOTES

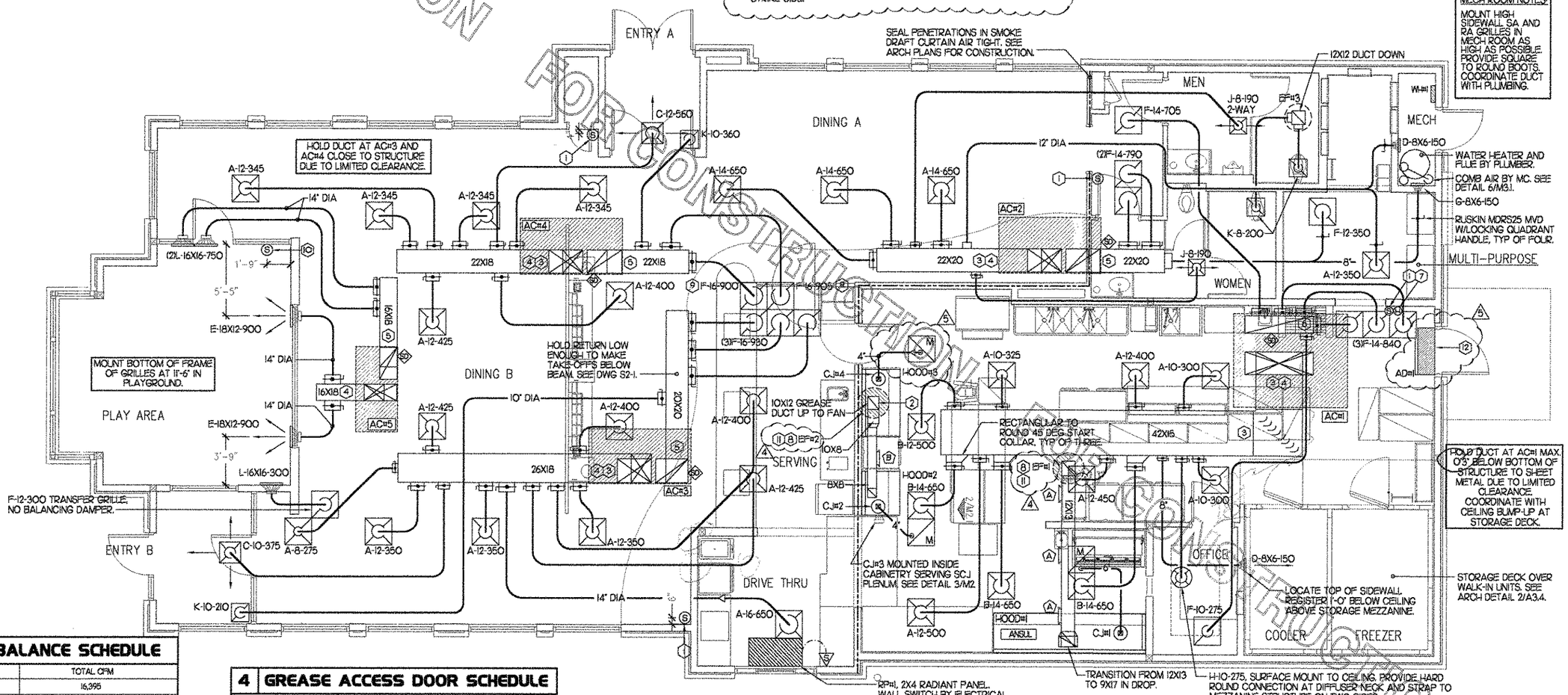
1. MOUNT REMOTE SENSOR ON WALL AT 5'-0" AFF AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL.
2. 6X8 CONNECTION TO HOOD#3 WITH HALTON KBD EQUALIZER IN RISER. SEE DWG M2.1 FOR MORE INFORMATION.
3. BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
4. TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. PROVIDE TURNING VANES IN ELBOW.
5. TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. NO TURNING VANES IN ELBOW.
6. TRANSITION FROM FULL SIZE OF CURB OPENING TO 16" X 52". TERMINATE DROP 0'-5" ABOVE CEILING.
7. MOUNT LENNOX HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
8. EF#1 AND EF#2 MUST BE LOCATED A MINIMUM OF 10 FT FROM PARAPETS.
9. INSULATION ON DUCT DROP THROUGH UPPER CEILING TO STOP AT UPPER CEILING PENETRATION. SAND/DEGREASE GALVANIZED SHEET METAL AND PAINT FLAT WHITE. CEILING TILE AT UPPER CEILING TO BE CUT TO FIT AROUND DUCT DROP.
10. MOUNT REMOTE SENSOR FOR PLAYGROUND 10'-4" AFF. ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL.
11. PROVIDE SEISMIC RESTRAINTS AT BEGINNING AND END OF GREASE EXHAUST DUCT HORIZONAL RUNS. SEE DETAILS 6/M3-2 AND 7/M3-2 FOR RESTAINT SYSTEM INSTALLATION.
12. AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-5" AFF TO BOTTOM OF UNIT. LOCATE PLUNGER TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.

LEGEND

A-12-400	TYPE - NECK SIZE - CFM	EF#1	EXHAUST FAN #1 (TYP.)
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP	AC#1	AIR CONDITIONING UNIT #1 (TYP.)
	SPIN-IN, HARD ϕ, FLEXIBLE ϕ, DIFFUSER		RETURN/EXHAUST (TYP.)
S	REMOTE TEMPERATURE SENSOR		SUPPLY DIFFUSER, SQ FACE (TYP.)
H	HUMIDITY SENSOR	1	PLAN NOTE REFERENCE
SD	SMOKE DETECTOR		MANUAL VOLUME DAMPER
12X18	DUCT SIZE 1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION		DIRECTION OF THROW ON DIFFUSER

LENNOX FRESH AIR TEMPERING SETUP

1. INSTALL FRESH AIR TEMPERING KIT WIRING HARNESS AS RECOMMENDED BY LENNOX.
2. LOCATE SUPPLY AIR TEMPERATURE SENSOR IN SUPPLY DUCT DOWNSTREAM OF FIRST ELBOW. SECURE WIRING TO DUCT OR STRUCTURE WITH RUBBER COATED CLAMPS. DO NOT RUN WIRING INSIDE DUCT WORK. PROTECT ALL WIRING PENETRATIONS WITH RUBBER GROMMETS.
3. CHANGE ROOFTOP UNIT ECTO PARAMETER 6.20 TO A VALUE OF 145. THIS WILL PREVENT THE SUPPLY AIR TEMPERATURE FROM DROPPING BELOW 66F DEG DURING HEATING MODE WHEN THERMOSTAT IS NOT ACTIVELY CALLING FOR HEAT. ECTO PARAMETER 6.20 MUST BE CHANGED TO ACTIVATE THE FRESH AIR TEMPERING FEATURE.
4. CHANGE ROOFTOP UNIT ECTO PARAMETER 6.21 TO A VALUE OF 21 WHICH WILL MAKE THE DEADBAND VALUE EQUAL 14F.
5. CHANGE ROOFTOP UNIT ECTO PARAMETER 6.22 TO A VALUE OF 37 WHICH WILL MAKE THE CYCLE TIME VALUE EQUAL 5 MINUTES.



3 AIR BALANCE SCHEDULE

AIR TYPE	TOTAL CFM
SUPPLY	16,395
RETURN	12,095
EXHAUST	3,300
OUTSIDE AIR	4,300
BUILDING POSITIVE PRESSURE	1,000

4 GREASE ACCESS DOOR SCHEDULE

MARK	OPENING SIZE	DOOR SIZE	REMARKS
A	8H X 12W	10H X 14W	1
B	6H X 10W	8H X 12W	1

1) ACCESS DOOR SHALL BE UL 1978 LISTED, REQUIRE NO TOOLS FOR REMOVAL AND BE EQUAL TO DUCTMATE ULTIMATE DOOR II WELD ON TYPE.

1 MECHANICAL FLOOR PLAN

1/4"=1'-0"

SHEET NOTES

1. DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.

FOR CONSTRUCTION

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Revisions:

Mark	Date	By
4	01/23/07	BUILDING DEPT
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5	03/07/07	HEALTH DEPT
	COMMENTS.	

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SHEET TITLE
MECHANICAL FLOOR PLAN

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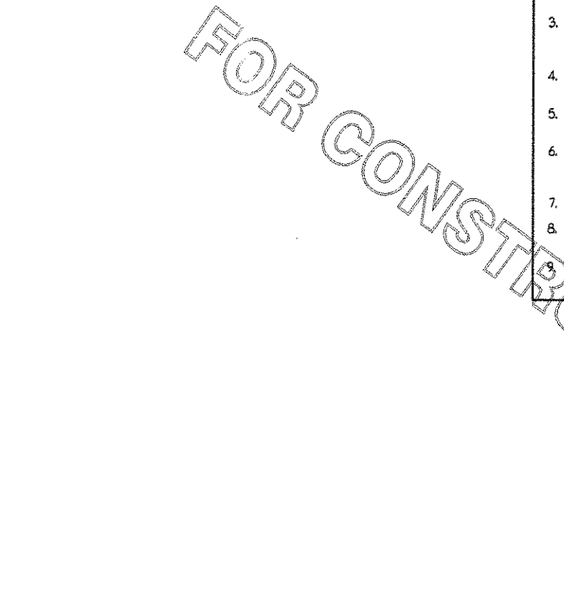
Sheet
M-1.1

5 KITCHEN HOOD SYSTEMS NOTES

1. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT WITH HALTON CO. FOR THE HOODS. CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
2. THE FIRE SUPPRESSION SYSTEM SHALL CONSIST OF A COMPLETE WET ANSUL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
3. THE R-102 ANSUL FIRE SUPPRESSION SYSTEM EXTERNAL TO THE HOODS SHALL BE INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURER'S SHOP DRAWINGS BY AN AUTHORIZED ANSUL SYSTEM INSTALLER HIRED BY HALTON.
4. HOOD EXHAUST DUCTWORK SHALL BE 16 GA. BLACK STEEL WITH CONTINUOUS LIQUID TIGHT WELD OF JOINTS & SEAMS.
5. TURNS IN GREASE EXHAUST DUCTWORK SHALL BE LONG RADIUS TYPE, WITH A CENTERLINE RADIUS R-3W/2, NO EXCEPTIONS ALLOWED. NO MITERED FITTINGS ALLOWED.
6. ALL STAINLESS STEEL CLOSURE PANELS SHALL BE SUPPLIED BY HOOD MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. SLOPE ALL GREASE EXHAUST DUCT BACK TO HOOD AT 1/4" PER FOOT OF RUN.
8. WRAP NEW GREASE DUCT WITH 3M FIRE BARRIER 15A. ACCESS DOORS SHALL BE INSTALLED ACCORDING TO 3M FIRE BARRIER PRODUCTS INSTALLATION MANUAL.
9. SUPPORT HOODS WITH 1/2" THREADED ROD AT FOUR CORNERS. ATTACH TO STRUCTURE WITH STRUT AS DETAILED ON STRUCTURAL DRAWING S5-1.

4 HOOD SCHEDULE

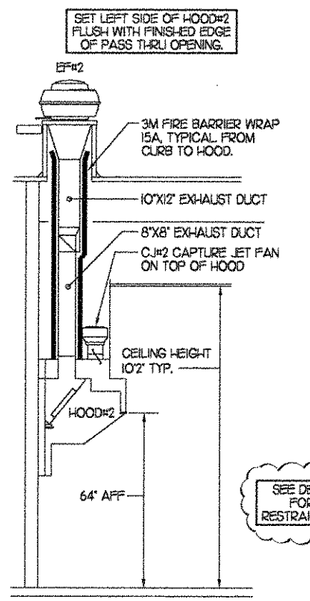
MARK	EXHAUST CFM	SP • TAB PORT	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
HOOD#1	1,700	0.20"	100 • 0.30"	BACK SHELF	9"X17"	136.5"	34"	48"	HALTON	KVL	1,2,3,4,5,6,8,9,10
HOOD#2	700	0.27"	30 • 0.30"	BACK SHELF	8"X8"	40"	34"	48"	HALTON	KVL	1,2,4,5,7,10,11
HOOD#3	500	0.07"	30 • 0.30"	BACK SHELF	8"X8"	62"	34"	48"	HALTON	KVL	1,2,4,5,10,12,13,14
NOTES	DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS).										
REMARKS	1) STAINLESS STEEL CONSTRUCTION. 2) PROVIDE FULL HEIGHT SS CLOSURE PANEL WITH ACCESS PANEL IN FRONT LARGE ENOUGH TO REMOVE CAPTURE JET FAN. 3) PROVIDE FULL HEIGHT SS CLOSURE PANEL WITH ACCESS PANEL IN FRONT LARGE ENOUGH TO SERVICE ANSUL COMPONENTS. 4) PROVIDE PRE-PIPED ANSUL R-102 WET FIRE EXTINGUISHING SYSTEM. 5) PROVIDE 3" BACK SPACER. 6) PROVIDE 3" LEFT SIDE SPACER. 7) PROVIDE NOTCHED LEFT END SIDE PANEL. 8) PROVIDE NOTCHED RIGHT END SIDE PANEL. 9) ANSUL CABINET AND COMPONENTS ON RIGHT SIDE ABOVE HOOD. 10) PROVIDE TOP PLENUM CAPTURE JET FAN, SPEED CONTROLLER AND COLLAR. 11) PROVIDE COUNTER MOUNTED SIDE CAPTURE JET PLENUM ASSEMBLY AND FAN ON LEFT SIDE OF HOOD. 12) PROVIDE HALTON KBD EQUALIZER WITH FACTORY INSTALLED 8X6 TRANSITIONS ON LEAVING CONNECTION FLANGE. 13) PROVIDE ACCESS PANEL IN FRONT LARGE ENOUGH TO ACCESS KBD EQUALIZER JACK SCREW. 14) PROVIDE FULL RIGHT END PANEL EXTENDING BELOW TOP OF COOKING SURFACE.										



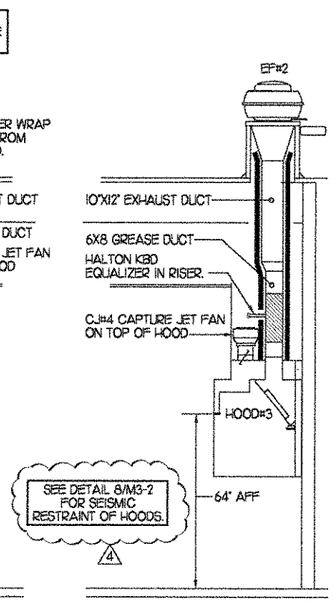
CAPTURE JET FAN NOTE:
CAPTURE JET FANS MOUNTED ON HOODS ARE TO BE DUCTED TO A GRILLE IN THE KITCHEN CEILING. SEE DRAWING M1.1 FOR LAYOUT AND SIZES.

CLEANOUT DOOR NOTE:
DUCT WRAP SHALL BE APPLIED TO THE CLEANOUT DOOR PER THE WRAP MFR'S INSTALLATION INSTRUCTIONS, NO EXCEPTIONS. ALSO, THE CLEANOUT DOOR MUST BE REMOVABLE WITHOUT TOOLS AND MUST BE CLEARLY AND PERMANENTLY LABELED.

SECTION "A-A"

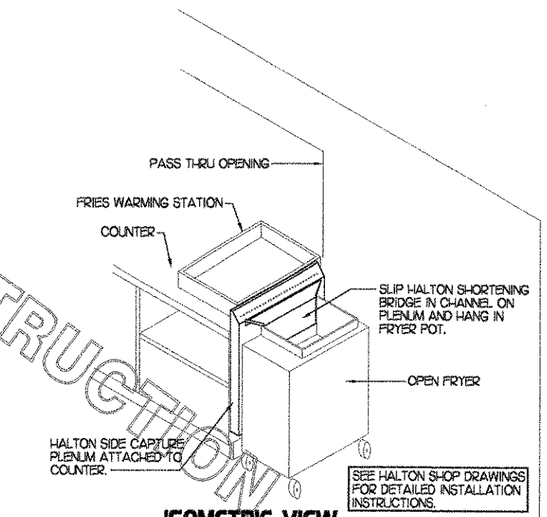


SECTION "B-B"

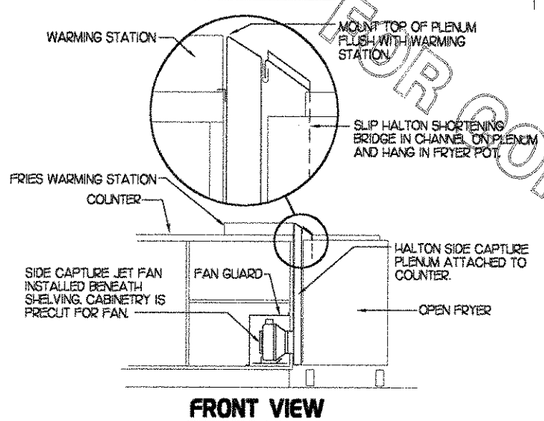


SECTION "C-C"

3 HOOD ELEVATIONS
NONE

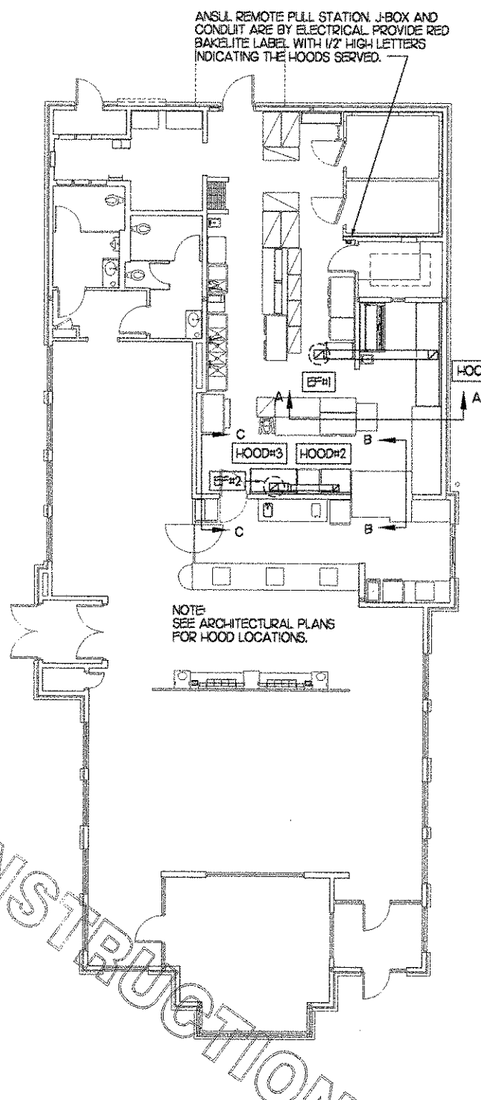


ISOMETRIC VIEW



FRONT VIEW

2 HALTON SIDE CAPTURE JET PLENUM
NOT TO SCALE



1 HOOD LAYOUT
1/8"=1'-0"

FOR CONSTRUCTION
FOR CONSTRUCTION
FOR CONSTRUCTION

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
4	01/23/07	BUILDING DEPT COMMENTS.

Mark	Date	By

Mark	Date	By

Seal

BENNOR ENGINEERING, LLC
3000 Longford Road
Building 2400
Norcross, GA 30071
[770] 729-1424 bus
[770] 729-0490 fax
rdbennor@bennor-Eng.com

STORE
Chesterfield Commons
FSU S06C-R

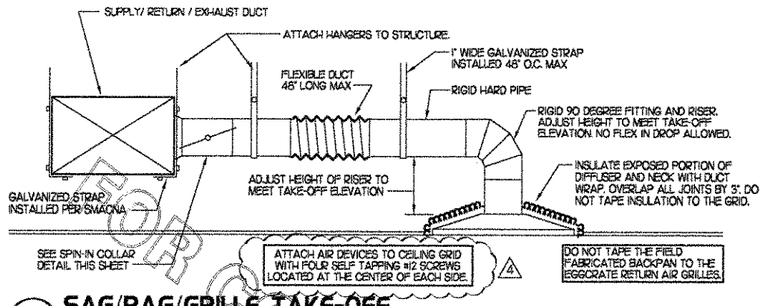
Chesterfield Commons
Chesterfield, MO

SHEET TITLE
HOOD DETAILS & SCHEDULES

DWG EDITION 05.9
REVISION —

Job No. : 6051
Store : 1976
Date : 5/26/06
Drawn By : RWW
Checked By: RDB

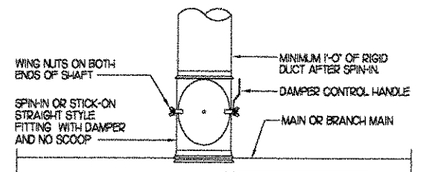
Sheet
M-2.1



1 SAG/RAG/GRILLE TAKE-OFF

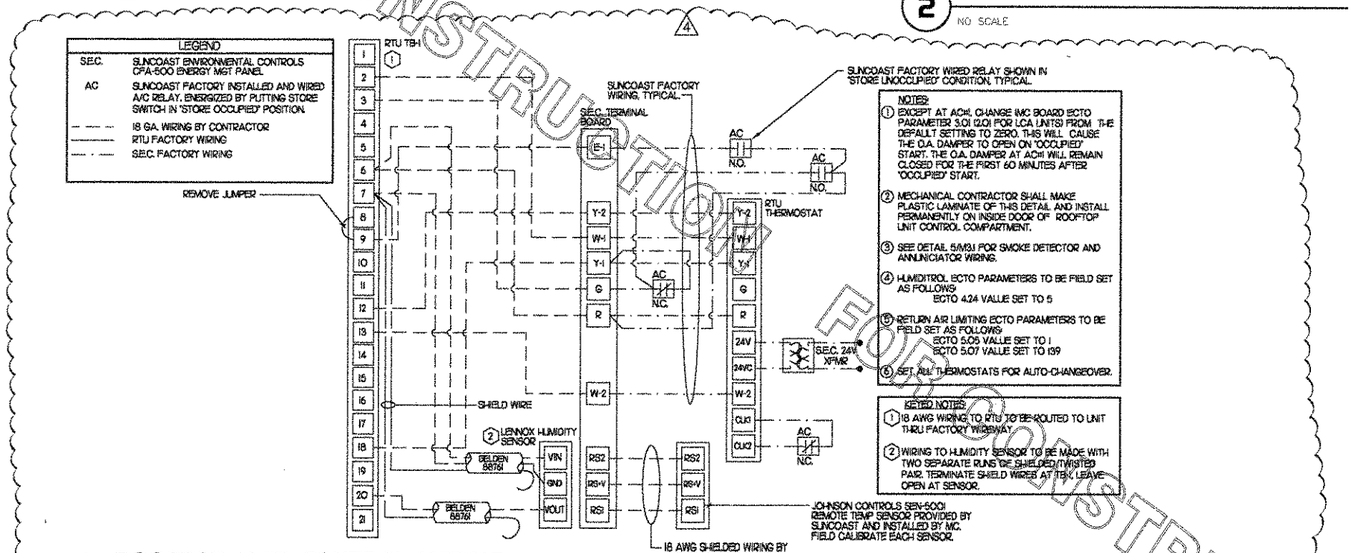
NO SCALE

DAMPER CONTROL HANDLE MUST BE LEFT EXPOSED. ATTACH A YELLOW FLUORESCENT CONSTRUCTION RIBBON TO THE HANDLE. RIBBON MUST HANG 12" BELOW DUCT AND BE EASILY IDENTIFIABLE FOR TEST AND BALANCE CONTRACTOR.



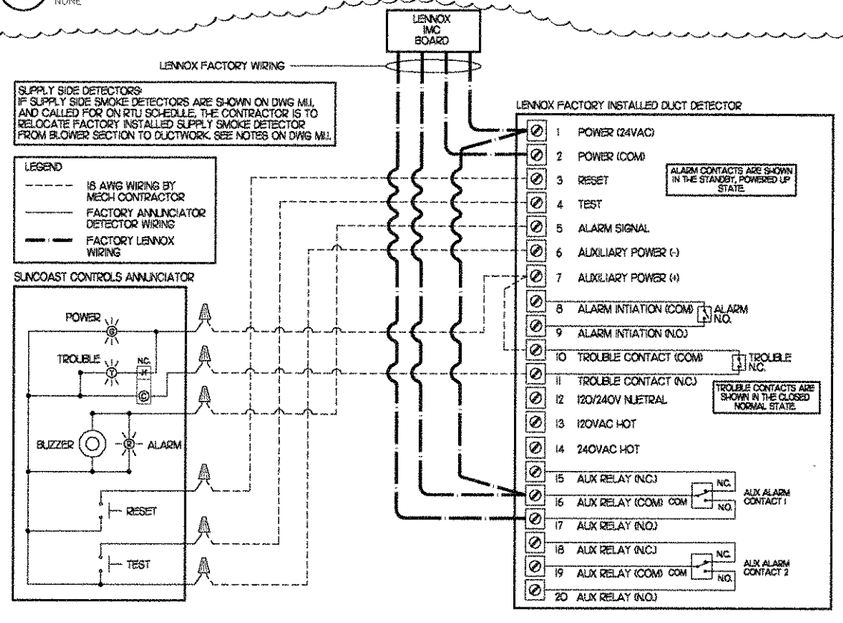
2 SPIN-IN COLLAR

NO SCALE



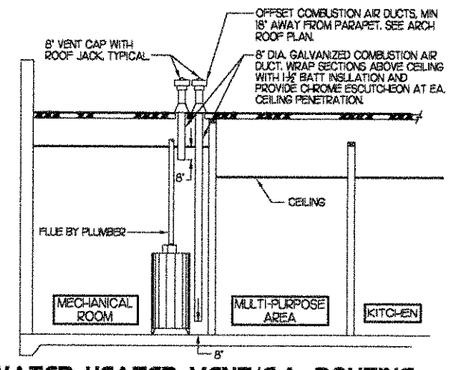
2 ROOFTOP UNIT CONTROL WIRING

NONE



5 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM

NO SCALE



6 WATER HEATER VENT/C.A. ROUTING

NO SCALE

10 GAS FIRED ROOFTOP UNIT SCHEDULE

MARK	COOLING CAPACITY (MBH) TOTAL	COOLING CAPACITY (MBH) SENS	HEATING CAPACITY (MBH) INPUT	HEATING CAPACITY (MBH) OUTPUT	FAN SECTION (CFM) SUPPLY	O.A.	HP	ESP	MODEL	MANUFACTURER	REMARKS
AC#1	181.9	133.2	480.0	384.0	5,000	1,650	5	.70	LGC150-12EH	LENNOX	1,3,5,6,8,9,10,11,12,13,14
AC#2	102.8	71.6	240.0	192.0	2,850	750	2	.65	LGA102-12EH	LENNOX	2,3,5,8,9,10,11,12,14,15
AC#3	128.0	90.8	240.0	192.0	4,000	1,000	3	.65	LGA120-12EH	LENNOX	1,3,5,7,8,9,10,11,12 ,14,15
AC#4	94.5	69.9	240.0	192.0	2,765	600	2	.65	LGA090-12EH	LENNOX	2,3,5,8,9,10,11,12,14,15
AC#5	69.9	47.3	125.0	100.0	1,800	300	1.5	.65	LGA060-12EH	LENNOX	3,4,5,7,8,9,10,11,12,14,15

NOTES:
- COOLING CAPACITIES ARE GROSS, BASED ON INDOOR 75FDB/62.4FWB, OUTDOOR 95FDB/75.2FWB.
- CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. CONTACT EMILY MURRAY WITH LENNOX NATIONAL ACCOUNTS AT 972-497-6261 (OR BY FAX AT 972-497-5260) FOR PRICING, ORDERING AND AVAILABILITY.

REMARKS:
1) PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
2) PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
3) PROVIDE 14" HIGH ROOF CURB WITH LENNOX/THYCURB RESTRAINT CLIP.
4) PROVIDE OPTION MOTORIZED OUTSIDE AIR DAMPER ASSEMBLY.
5) SEE DETAIL 2/M3.1 FOR SETTING OF ECTO PARAMETERS BY MC.
6) PROVIDE FACTORY INSTALLED AND UNIT POWERED 115V GFI SERVICE OUTLET.
7) PROVIDE FACTORY INSTALLED 115V GFI SERVICE OUTLET.
8) PROVIDE FACTORY INSTALLED RETURN SIDE SMOKE DETECTOR.
9) PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT.
10) PROVIDE 2" FIBER 30/30 THROW AWAY FILTERS.
11) PROVIDE HINGED PANELS FOR FILTER ACCESS, FAN MOTOR ACCESS, COMPRESSOR ACCESS AND CONTROL COMPARTMENT ACCESS.
12) ADJUST GAS MANIFOLD PRESSURE AT LOCATIONS WHERE ELEVATION EXCEEDS 2000' ABOVE SEA LEVEL AS RECOMMENDED BY MANUFACTURER.
13) PROVIDE HUMIDITROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR (STATES OF GA AND AZ EXCLUDED).
14) PROVIDE FRESH AIR TEMPERING KIT.
15) PROVIDE FACTORY COIL HAIL GUARD, FIELD INSTALLED.

9 EXHAUST FAN SCHEDULE

MARK	CFM	ESP	RPM	TIP SPEED (FPS)	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
EF#1	1,700	3/4	1,574	101	3/4	HOOD#1	NBRTD-140A	JENN	1,2,3,4,10
EF#2	1,200	3/4	1,286	83	3/4	HOOD#2 & HOOD#3	NBRTD-140A	JENN	1,2,3,4,10
EF#3	400	1/4	1,125	50	1/10	RESTROOMS	REDBOSS	JENN	2,5,6,7,8,9,10

NOTES: GREASE EXHAUST FAN RPM BASED ON 78 DEGREE F AIR AT SEA LEVEL.

REMARKS:
1) PROVIDE FACTORY 1'-0" BASE CURB AND EXTENSION.
2) PROVIDE FACTORY NON-FUSED DISCONNECT.
3) PROVIDE FACTORY INSTALLED HINGED BASE KIT.
4) PROVIDE AND INSTALL FACILITEC G2 DRIP GUARD. THE MECHANICAL CONTRACTOR IS TO CONTACT FACILITEC AT 800-284-8273 FOR PURCHASING AND SHIPPING ARRANGEMENTS.
5) PROVIDE BIRDSCREEN.
6) BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR AS SHOWN ON 4/M-3.1.
7) STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR.
8) PROVIDE 12" HIGH CURB.
9) PROVIDE FACTORY INSTALLED AND WIRED SPEED CONTROLLER.
10) CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH JENN. THE FAN/CURB PACKAGE MUST BE PURCHASED BY THE MECHANICAL CONTRACTOR THROUGH SUNLOW ASSOCIATES IN ATLANTA, GA. TELEPHONE 800-678-6569. FANS AND CURBS NOT PURCHASED THROUGH SUNLOW WILL NOT BE ACCEPTED.

8 AIR DEVICE SCHEDULE

MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	TITUS MODEL PSS-AA ALUMINUM SUPPLY AIR DIFFUSER WITH AIR PATTERN CONTROLLER.	DINING AREA KITCHEN	SEE PLAN	24X24	LAY-IN	1,7
B	TITUS MODEL PAR-AA ALUMINUM RETURN AIR GRILLE USED AS A SUPPLY DIFFUSER.	KITCHEN	SEE PLAN	24X24	LAY-IN	1,7
C	TITUS MODEL MCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRY 'A' ENTRY 'B'	14X14	19X19	SURFACE	1,5,7
D	TITUS MODEL 272FS DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE. FRONT BLADE PARALLEL TO SHORT SIDE.	MECHANICAL ROOM MEZZANINE	8X6	10X8	SURFACE	1,7
E	TITUS MODEL 272FL DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE. FRONT BLADE PARALLEL TO LONG SIDE.	PLAYGROUND	18X12	20X14	SURFACE	1,7
F	DONCO MODEL CPDF EGGCRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BACKPAN AND ROUND NECK.	DINING/OFFICE KITCHEN	SEE PLAN	24X24	LAY-IN	1,7
G	TITUS MODEL 56FL ALUMINUM SIDEWALL RETURN GRILLE. FRONT BLADE PARALLEL TO LONG SIDE.	MECHANICAL ROOM	8X6	10X8	SURFACE	1,7
H	TITUS MODEL TMR-AA ALUMINUM CONCENTRIC ROUND CONE SUPPLY DIFFUSER.	OFFICE	10	18	LAY-IN	1,6,7
J	TITUS MODEL MCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10X10	15X15	SURFACE	1,2,3,5,7
K	TITUS MODEL PAR STEEL PERFORATED FACE RETURN AIR GRILLE WITH OBD.	RESTROOMS ENTRY 'A' & 'B'	14X14	16X16	SURFACE	1,4,7
L	TITUS MODEL 56FL ZERO DEGREE DEFLECTION ALUMINUM SIDEWALL RETURN GRILLE. FRONT BLADE PARALLEL TO LONG SIDE.	PLAYGROUND	16X16	18X18	SURFACE	1,7
M	TITUS MODEL PAR-AA ALUMINUM RETURN AIR GRILLE.	KITCHEN	6	24X24	LAY-IN	1,7

REMARKS:
1) STANDARD OFF WHITE FINISH.
2) PROVIDE MODEL AG-85 NECK DAMPER.
3) SEE DRAWING M1.1 FOR THROW.
4) PROVIDE MODEL AG-75 NECK DAMPER ON GRILLES IN RESTROOMS.
5) FIELD FABRICATE 8" DEEP BACKPAN. SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
6) PROVIDE AG-75 NECK DAMPER, ADJUSTABLE THRU DIFFUSER FACE.
7) CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DEVICES. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

11 ELECTRIC WALL HEATER SCHEDULE

MARK	KW	FRAME SIZE WIDTH	FRAME SIZE HEIGHT	CFM	MOUNTING TYPE	MODEL	MANUFACTURER
WH-1	1.5	16"	21"	175	SURFACE	HF3324T1D-UP	MARKEL

REMARKS:
1) AUTOMATIC FAN DELAY SWITCH AND INTEGRAL DISCONNECT.
2) INTEGRAL TAMPERPROOF THERMOSTAT SET AT 65 DEG. F.
3) CAPACITY SHOWN IS FOR 208V SERVICE.
4) CONFIRM ELECTRICAL CHARACTERISTICS PRIOR TO ORDERING EQUIPMENT.
5) POWDER COATED 18 GA. STEEL GRILLE WITH ALUMINUM FRAME.
6) AUTOMATIC RESET THERMAL LIMIT SWITCH.
7) TUBULAR STEEL ELEMENT WITH STEEL FINS.

7 RADIANT CEILING PANEL SCHEDULE

MARK	WATTAGE	FRAME SIZE	BTU	MOUNTING TYPE	MODEL	MANUFACTURER
RP#1	750	24" X 48"	2560	T-BAR	CP SERIES	MARKEL

1) MANUAL SWITCH ON WALL BY ELECTRICAL.
2) COORDINATE ELECTRICAL CHARACTERISTICS WITH ELECTRICAL PLANS PRIOR TO ORDERING.
3) MECHANICAL TO PROVIDE PLASTIC ENGRAVED LABEL ON WALL SWITCH WITH 1/2" HIGH WHITE LETTERING ON A BLUE BACKGROUND INDICATING 'RADIANT PANEL - RP#1'.

11 AIR DOOR SCHEDULE

MARK	CFM	VELOCITY	HEATING CAP	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD#1	3,384	4,000	NA	3/4	REAR DOOR	BCT-1442	POWERED-AIRE	1,2

REMARKS:
1) FACTORY PROVIDED PLUNGER TYPE MICRO-SWITCH.
2) CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DOOR. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DOOR DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. AN AIR DOOR NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

FOR CONSTRUCTION
FOR CONSTRUCTION
FOR CONSTRUCTION

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
4	01/29/07	BUILDING DEPT COMMENTS.
5	03/07/07	HEALTH DEPT COMMENTS.

Seal

BENNOR ENGINEERING, LLC
MECHANICAL ENGINEERS
3000 Longford Road
Building 2400
Norcross, GA 30071
(770) 729-1422 bus
(770) 729-0490 fax
rdbennor@BennorEng.com

STORE
Chesterfield Commons
FSU S06C-R

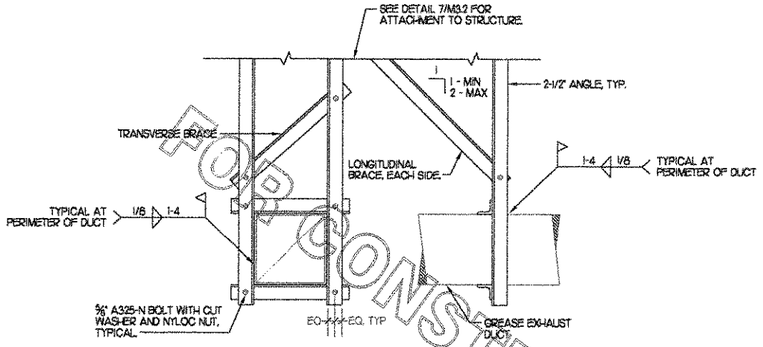
Chesterfield Commons
Chesterfield, MO

SHEET TITLE
HVAC DETAILS & SCHEDULES

DWG EDITION 05.9
REVISION —

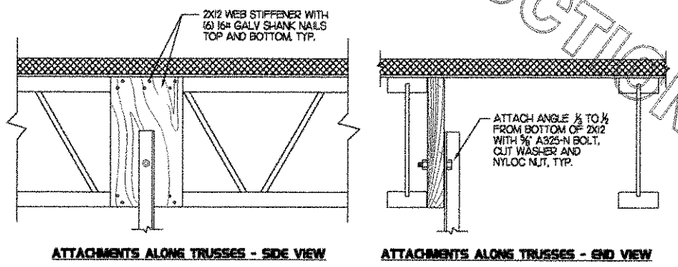
Job No. : 6051
Store : 1976
Date : 5/26/06
Drawn By : RWW
Checked By: RDB

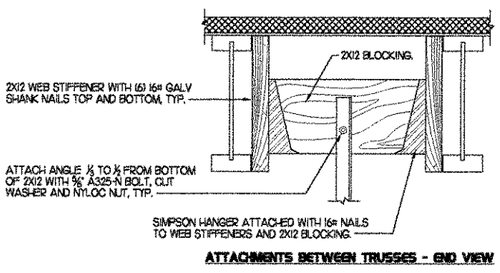
Sheet
M-3.1



6 KITCHEN HOOD EXHAUST DUCT RESTRAINT

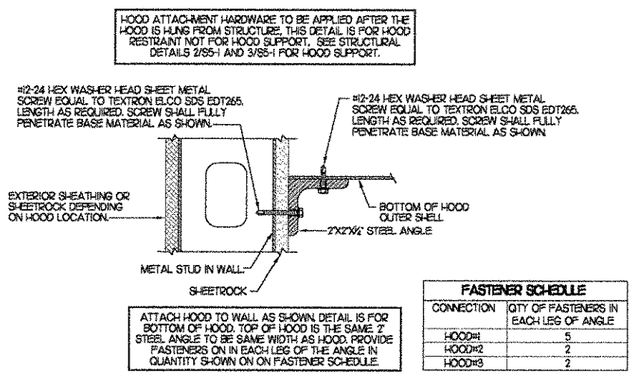
NO SCALE





7 KITCHEN HOOD EXHAUST DUCT ATTACHMENT

NO SCALE



FASTENER SCHEDULE	
CONNECTION	QTY OF FASTENERS IN EACH LEG OF ANGLE
HOOD#1	5
HOOD#2	2
HOOD#3	2

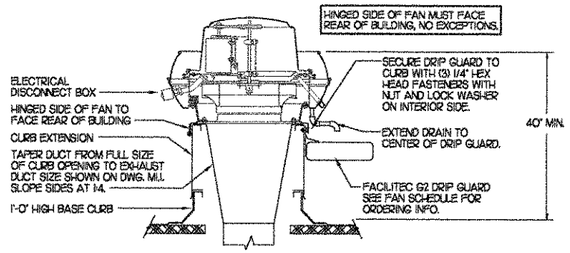
8 KITCHEN HOOD ATTACHMENT

NO SCALE

SEISMIC FASTENER REQUIREMENTS

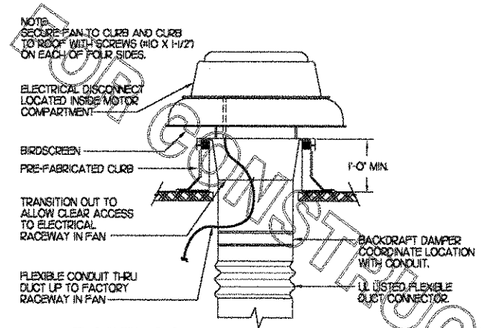
SECURE FAN HINGED BASE TO CURB EXTENSION AND CURB EXTENSION TO BASE CURB WITH #12-14X3/4" HEX WASHER HEAD SHEET METAL SCREW EQUAL TO TEXTRON ELCO SDS EDT265. ONE FASTENER EACH SIDE OF CURB.

SECURE BASE CURB TO ROOF OPENING BLOCKING WITH #12-24X1" HEX WASHER HEAD SHEET METAL SCREW EQUAL TO TEXTRON ELCO SDS EDT265. SCREW SHALL FULLY PENETRATE CURB FRAME AND BLOCKING. ONE FASTENER ON EACH SIDE OF CURB.



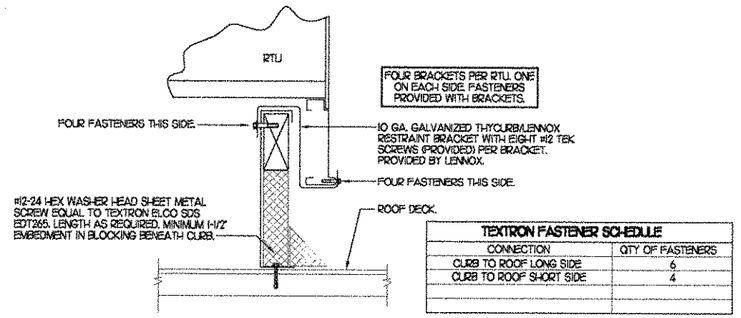
4 KITCHEN HOOD EXHAUST FAN

NO SCALE



5 RESTROOM EXHAUST FAN

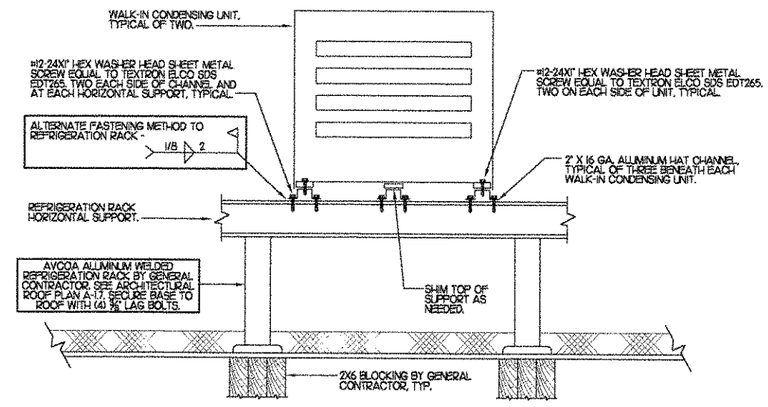
NO SCALE



TEXTRON FASTENER SCHEDULE	
CONNECTION	QTY OF FASTENERS
CURB TO ROOF LONG SIDE	6
CURB TO ROOF SHORT SIDE	4

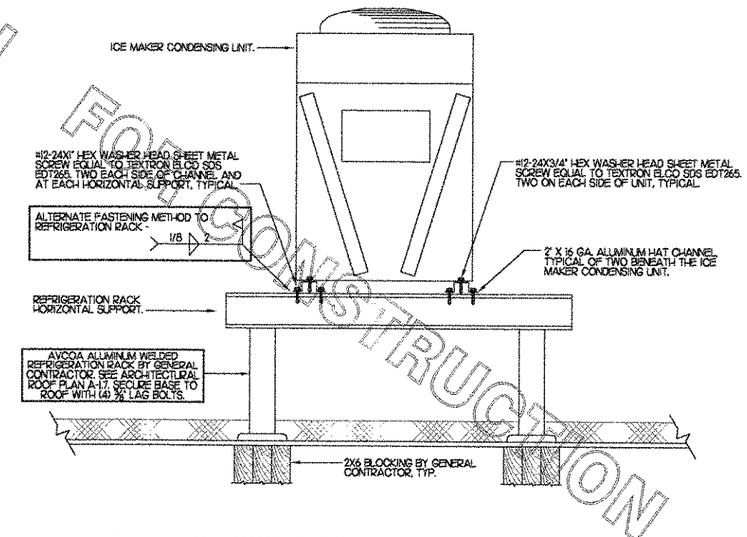
1 RTU CURB BRACKET

NO SCALE



2 WALK-IN CONDENSING UNIT TIE DOWN DETAIL

NO SCALE



3 ICE MAKER CONDENSING UNIT TIE DOWN DETAIL

NO SCALE

FOR CONSTRUCTION

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
4	01/25/07	BUILDING DEPT

COMMENTS.

Mark	Date	By

Mark	Date	By

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SHEET TITLE
SEISMIC DETAILING

DWG EDITION 05.9
REVISION –

Job No. : 6051
Store : 1976
Date : 5/26/06
Drawn By : RWW
Checked By: RDB

Sheet
M-3.2
4

I. MECHANICAL SPECIFICATIONS

PART I GENERAL

1. IT IS THE RESPONSIBILITY OF CONTRACTOR TO READ ALL SPECIFICATIONS AND CONSULT ALL DRAWINGS WHICH MAY AFFECT THE INSTALLATION AND COORDINATION OF HIS WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY TO SECURE COORDINATION.

2. COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE LATEST APPROVED EDITIONS OF NFPA-96, NFPA-90A, NFPA-54, SMACNA, ASHRAE 90.1 AND ASHRAE 62.

3. SYSTEM LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL CONDITIONS, COORDINATION WITH OTHER TRADES, COORDINATION WITH FINISHES AND OTHER CONDITIONS. STRUCTURAL SUPPORTS SHALL NOT BE CUT OR ALTERED TO ASSURE FIT OF HVAC SYSTEM. TEN FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN OUTSIDE AIR INTAKES AND EXHAUST FANS AND PLUMBING VENT TERMINALS.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED AS PART OF THIS SYSTEM.

5. UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO CONDITION ACCEPTABLE TO THE OWNERS REPRESENTATIVE. ALL EQUIPMENT, COMPONENTS AND DUCTWORK SHALL BE INSPECTED AND THOROUGHLY CLEANED, READY FOR USE. AT COMPLETION OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.

6. CONTRACTOR SHALL PROVIDE FARR 30/30 2" OR EQUAL THROW AWAY TYPE FILTERS. A CLEAN SET SHALL BE PROVIDED PRIOR TO UNIT STARTUP AND AGAIN PRIOR TO OPENING.

PART II PRODUCTS

1. HEATING AND COOLING EQUIPMENT

   A. FURNISH AND INSTALL ROOFTOP SINGLE PACKAGE COMBINATION ELECTRIC COOLING AND NATURAL GAS FIRED HEATING UNITS BY LENNOX AS SHOWN ON DRAWINGS. EQUIPMENT SHALL BE ARI CERTIFIED AND A.G.A. AND U.L. LISTED.

   B. ACCESSORIES SHALL INCLUDE LOW AND HIGH PRESSURE SAFETIES, CRANK CASE HEATER, OVERCURRENT AND OVERTEMPERATURE SAFETY, COMPRESSOR VIBRATION ISOLATORS, FILTER DRIERS, REFRIGERANT SERVICE VALVES, COIL HAIL GUARDS WHERE SCHEDULED, CONVENIENCE OUTLETS FACTORY INSTALLED ON SCHEDULED UNITS, UNIT MOUNTED NON-FUSED DISCONNECTS, LOW AMBIENT OPERATION DOWN TO 30 DEGREES F AND EVAPORATOR FREEZE STAT.

   C. COMPRESSORS SHALL BE FULLY HERMETIC SCROLL TYPE WITH INTERNAL VIBRATION ISOLATORS. COMPRESSORS SHALL BE PROVIDED WITH A MINIMUM FIVE (5) YEAR FULL WARRANTY.

   D. THE UNIT HEAT EXCHANGERS SHALL BE STEEL WITH ALUMINIZED STEEL COATING. HEATING CONTROLS SHALL CONSIST OF REDUNDANT GAS VALVES, INTERMITTENT PILOT WITH ELECTRONIC SPARK OR HOT PLATE IGNITION SYSTEM, COMBUSTION/EXHAUST FAN PROTECTED BY CENTRIFUGAL SWITCHES, HEAT LIMIT SWITCHES, TIME-DELAY RELAY, FLAME, AND PILOT SENSORS. ALL UNITS SHALL BE CAPABLE OF TWO STAGES OF HEAT. HEAT EXCHANGES SHALL HAVE A TEN (10) YEAR WARRANTY. BURNERS SHALL BE ALUMINIZED IN-SHOT TYPE. THE DRAFT MOTOR SHALL BE MONITORED BY THE CONTROL SYSTEM.

   E. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. PRICING FOR THE EQUIPMENT HAS BEEN ESTABLISHED IN ADVANCE. CONTACT EMILY MURRAY WITH LENNOX NATIONAL ACCOUNTS AT 972-497-5261 (OR BY FAX AT 972-497-5260) FOR PRICING, ORDERING AND AVAILABILITY.

2. DUCTWORK, INSULATION & INSTALLATION (SEE DWG M2.1 FOR GREASE DUCT)

   A. ACCEPTABLE MANUFACTURERS OF INSULATION ARE MANVILLE, OWENS CORNING OR KNAUF.

   B. ALL DUCTWORK SHALL BE SHEET METAL.

   C. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.

   D. CONSTRUCTION OF DUCTWORK SHALL MEET SMACNA 1" W.C. PRESSURE CLASS STANDARD AND RECOMMENDATIONS. SMACNA SHALL BE FOLLOWED WITH RESPECT TO GAGE THICKNESS, JOINTS, REINFORCING, CONSTRUCTION, INSTALLATION AND SUPPORT FOR PRESSURE CLASS STATED. ALL TRANSVERSE JOINTS IN RECTANGULAR AND ROUND DUCT SHALL BE SEALED PER SMACNA SEAL CLASS C WITH U.L. DUCT MASTIC SEALANT APPROVED FOR INTENDED USE. STANDARD DUCT TAPE IS NOT ACCEPTABLE.

   E. ALL DUCT INSULATION SHALL MEET MINIMUM R-VALUE REQUIRED BY ASHRAE 90.1 LATEST EDITION. ALL DUCT WRAP SHALL BE MINIMUM 2" THICK, 3/4 PCF AND 5.6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL/KRAFT FACING.

   F. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.

   G. SUPPLY AND RETURN AIR DUCTWORK SERVING THE PLAYGROUND, KITCHEN, SERVING AND DINING AREAS SHALL BE EXTERNALLY INSULATED.

   H. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1-1/2 PCF INSULATION.

   I. TRUNK DUCTS SHALL BE ISOLATED FROM UNIT VIBRATION WITH THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTORS INSTALLED AT THE TOP OF BOTH SUPPLY AND RETURN DROPS.

   J. INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR RUNOUTS TO GRILLES AND DIFFUSERS ONLY IN THE HORIZONTAL POSITION AND IN MAXIMUM LENGTHS OF 4'-0", NO EXCEPTIONS. SEE TAKE-OFF DETAIL ON DRAWING M3.1.

   K. CONSTRUCTION OF FLEXIBLE DUCTWORK SHALL INCLUDE SPIRAL METAL HELIX BONDED TO A POLYESTER CORE, FIBERGLASS INSULATION WITH POLYETHYLENE OR MYLAR VAPOR BARRIER. ALL COMPONENTS SHALL HAVE APPROPRIATE U.L. APPROVAL AND SHALL BE EQUIVALENT TO FLEXMASTER TYPE 3M.

   L. FLEXIBLE DUCT SHALL BE INSTALLED USING DRAWBANDS AND FOIL TAPE ON THE INNER CORE AND OUTER INSULATION.

   M. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT 90 DEGREE TURNS IN SUPPLY DUCTWORK WHERE ANY ONE DIMENSION IS GREATER THAN 12".

   N. RADIUSED ELBOWS MAY BE SUBSTITUTED FOR 90 DEGREE ELBOWS AT THE DISCRETION OF THE CONTRACTOR. CENTERLINE RADIUS EQUAL TO, 3W/2 PER FIGURE NO. 2-2 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

   O. EXTERNAL INSULATION ON BOTTOM OF DUCTS 24" OR WIDER SHALL BE SUPPORTED WITH STICK PINS ON 18" CENTERS. STICK PIN WASHERS SHALL BE COVERED WITH DUCT TAPE OR MASTIC.

3. CONTROLS

   A. SYSTEMS SHALL BE COMPLETE WITH CONNECTIONS TO CFA-500 TEMPERATURE CONTROL PANEL AS MANUFACTURED BY SUNCOAST ENVIRONMENTAL CONTROLS (SECC) (PH. 877-544-6679). THE PANEL IS PROVIDED AND MOUNTED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING TERMINATIONS ARE BY THE MECHANICAL CONTRACTOR.

   B. THE SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND WIRED BY THE ROOFTOP UNIT MANUFACTURER.

   C. A FACTORY INSTALLED SMOKE DETECTOR IN THE RETURN AIR SECTION OF EACH AIR CONDITIONING UNIT SHALL STOP THE INDOOR FAN AND CLOSE THE OUTSIDE AIR DAMPER IN THE EVENT OF EXCESSIVE TEMPERATURE OR SMOKE. SMOKE DETECTOR SHALL BE LOCATED PRIOR TO ANY EXHAUST FROM THE BUILDING OR MIXING WITH FRESH AIR MAKE-UP. UPON DETECTION, THE SYSTEM SHALL NOT RESTART UNTIL THE DEVICE IS MANUALLY RESET. DEVICES SHALL BE LOCATED WHERE THEY CAN BE EASILY ACCESSED AND WHERE CLEAR OF FILTERS.

   D. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SUNCOAST ENVIRONMENTAL CONTROLS FOR THE SMOKE DETECTOR TEST/RESET ANNUNCIATOR STATIONS. THE TEST/RESET STATIONS WILL BE PURCHASED AND PROVIDED BY THE MECHANICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE.

   E. THE REMOTE TEST/RESET ANNUNCIATORS SHALL BE PROVIDED, INSTALLED AND WIRED BY THE MECHANICAL CONTRACTOR. INSTALLATION BY MECHANICAL SHALL INCLUDE MOUNTING OF THE ANNUNCIATORS AND ALL WIRING FROM EACH DEVICE TO THE RTU. ELECTRICAL WILL PROVIDE A JUNCTION BOX IN THE WALL WITH 1/2" CONDUIT STUBBED UP ABOVE THE CEILING FOR EACH REMOTE TEST STATION AS SHOWN ON THE ELECTRICAL PLANS. ANNUCIATOR SHALL BE SUNCOAST CONTROLS REMOTE TEST/RESET STATION WITH POWER LED, ALARM LED, 90DB HORN AND TEST/RESET BUTTON.

   F. WHERE REQUIRED BY LOCAL CODE, INSTALL A FIRESTAT IN THE RETURN AIR DUCT OF EACH PIECE OF AIR CONDITIONING EQUIPMENT HANDLING 2000 CFM OR MORE TO STOP THE INDOOR FAN AND CLOSE THE OUTSIDE AIR DAMPER WHEN HEAT WITHIN THE DUCT IS IN EXCESS OF 135 DEGREES FAHRENHEIT. FIRESTAT SHALL BE EQUIVALENT TO HONEYWELL MODEL #L4029E HIGH LIMIT CONTROLLER. FIRESTATS SHALL BE PROVIDED AND MOUNTED BY THE MECHANICAL CONTRACTOR. INSTALLATION BY MECHANICAL SHALL INCLUDE MOUNTING OF THE DEVICE AND ALL WIRING FROM THE DEVICE TO THE RTU. SHUTDOWN OF UNIT AND INDOOR FAN SHALL BE IMMEDIATE WITH NO DELAY.

   F. THE RESTROOM FAN SHALL BE INTERLOCKED TO THE LIGHTS SERVING THE MEN AND WOMEN'S RESTROOMS. THE HOOD FANS SHALL BE CONTROLLED VIA THE SUNCOAST CFA-500 CONTROL PANEL. WIRING, RELAYS AND SWITCHES FOR CONTROL OF ALL FANS ARE BY ELECTRICAL CONTRACTOR.

   G. THERMOSTATS ARE PROVIDED AND INTEGRATED INTO THE TEMPERATURE CONTROL PANEL BY SUNCOAST ENVIRONMENT CONTROLS. SUNCOAST WILL PROVIDE A JOHNSON CONTROLS REMOTE TEMPERATURE SENSOR MODEL SEN-500-1 FOR EACH THERMOSTAT. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THERMOSTAT, SENSOR AND ROOFTOP UNIT.

   H. MECHANICAL CONTRACTOR SHALL INSTALL CONTROL WIRING IN 1/2" CONDUIT WHERE REQUIRED BY CODE. WHERE NOT REQUIRED TO BE IN CONDUIT, ALL WIRING SHALL BE RUN PARALLEL TO STRUCTURAL MEMBERS OR PERPENDICULAR WITH NO DIAGONAL ROUTING. ALL WIRING SHALL BE SECURED TO THE FRAMING TO PREVENT SAGGING IN RUNS. WIRING TO ROOFTOP UNITS SHALL BE ROUTED THROUGH THE FACTORY THRU-BASE FITTING IN THE UNIT BASE. ALL WIRING ABOVE THE ROOF SHALL BE INSTALLED IN EXTERIOR GRADE FLEXIBLE CONDUIT. ALL CONTROL WIRING AND CONTROL WIRING CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF NEC.

PART III EXECUTION

A. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.

B. OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NBI OR AABC STANDARDS TO ASSURE CONFORMANCE WITH DESIGN. G.C. WILL MAKE MECHANICAL CONTRACTOR AVAILABLE DURING TEST AND BALANCE TO ASSIST TESTING AGENCY AND TO MAKE CORRECTIONS IMMEDIATELY NECESSARY. CONTRACTOR SHALL CORRECT ITEMS ON WRITTEN TEST AND BALANCE REPORT.

C. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT THROUGH DEMONSTRATION AND EXPLANATION OF OPERATING & MAINTENANCE MANUALS.

D. CONTRACTOR SHALL PROVIDE A "SAMPLE MAINTENANCE PROPOSAL" TO THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.

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NOT FOR CONSTRUCTION
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Chick-fil-A
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Atlanta Georgia,
30349-2998

Revisions:

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STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
MECHANICAL SPECIFICATIONS

DWG EDITION 05.9
REVISION --

Job No. : 6051
Store : 1976
Date : 5/26/06
Drawn By : RWW
Checked By: RDB

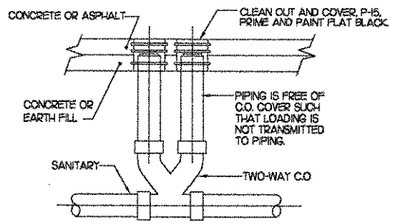
Sheet
M-4.1

KEY NOTES

1. ROUTE 1/2" CW TO TRAP PRIMER. SEE WASTE RISER DIAGRAM ON DWG P5.1.
2. ROUTE 3/4" CW TO DUMPSTER PAD POST HYDRANT. SEE DETAIL 1/P6.1.
3. ROUTE 1/2" CW TO TRAP PRIMER. SEE WATER RISER DIAGRAM ON DWG P5.1.
4. 4" TWO-WAY CO, P-15. SEE DETAIL 5/P1.1.
5. 1/2" CW UP TO TRAP PRIMER, P-33. SEE ISOMETRIC ON DWG P5.1. LOCATE PRIMER AND DISTRIBUTION WITHIN WALL DIRECTLY BEHIND CABINET. SHOWN OFFSET HERE FOR SAKE OF CLARITY.
6. INSTALL FLOOR DRAIN P-38 AT MOP SINK #850 WITH TOP OF STRAINER 0'-5" BFF.
7. 3/4" CW, 1/2" HW AND 2" SAN UP TO HAND SINK, P-5 WITH 3/4" CW BACK DOWN TO HAND SINK P-6 AT SERVING AREA.
8. FILTERED WATER DOWN FROM WATER FILTER SYSTEM IN MECH. ROOM. SEE DETAIL 4/P6.1 FOR CONTINUATION. SEE ROUGH-IN PLAN 1/P3.1 FOR EXACT LOCATION OF FILTERED WATER SLAB PENETRATIONS.
9. 3/4" CW UP IN WALL. SEE 1/P2.1 AND 2/P5.1 FOR CONTINUATION.

4. SHEET NOTES

1. COORDINATE INSTALLATION OF SANITARY PIPING WITH FOOTINGS IN THE FIELD. SLEEVE PENETRATIONS IN FOOTINGS WITH PVC.
2. WHERE REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION, PROVIDE SAFE-WASTE SYSTEM AS OUTLINED IN CODE AMENDMENTS.
3. SEE SHEET 2/P2.1 FOR CONTINUATION OF WATER PIPING STUBBED UP THROUGH SLAB.
4. INSTALL WATER PIPING ADJACENT TO WASTE AND VENT STACKS AS INDICATED ON PLAN. SEE 1/P3.1 FOR SAN AND VENT PIPE PENETRATION LOCATIONS AND FOR CRITICAL LOCATIONS OF WATER PIPING.



5 SAN. C.O. OUTSIDE BUILDING

SCALE: NONE

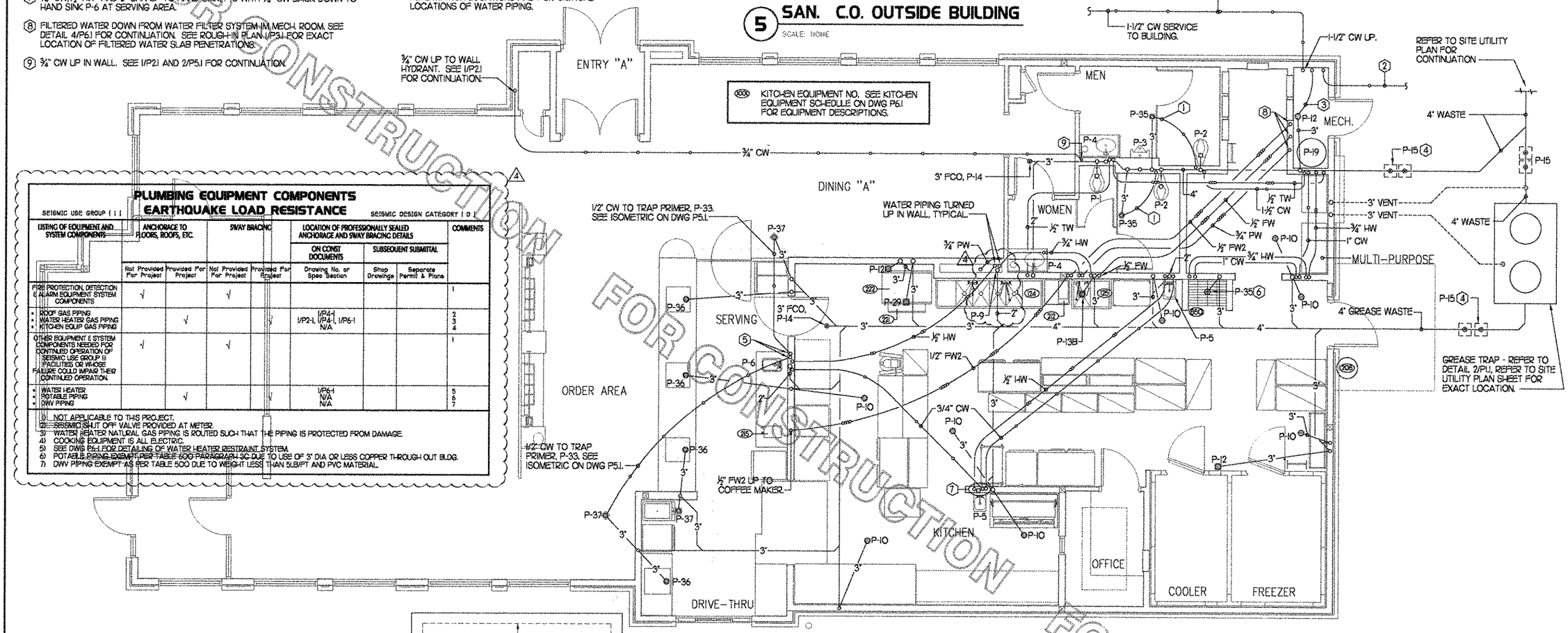
PLUMBING EQUIPMENT COMPONENTS EARTHQUAKE LOAD RESISTANCE

SEISMIC USE GROUP (I)

SEISMIC DESIGN CATEGORY (D)

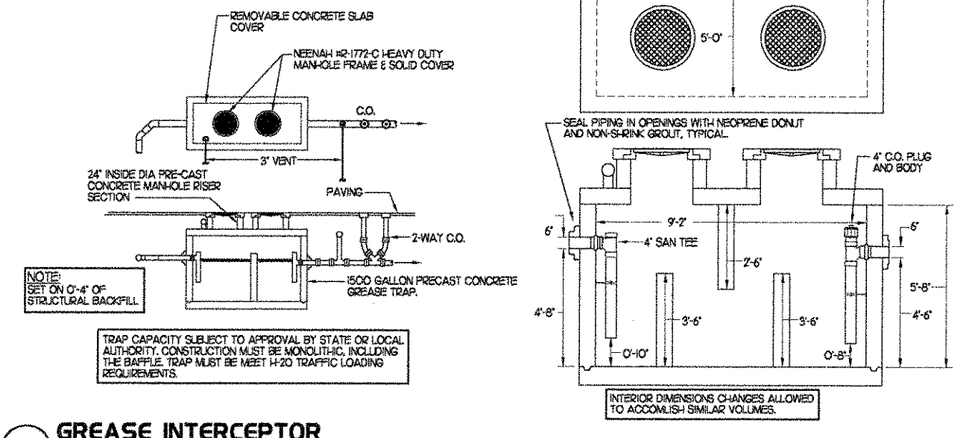
LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS			COMMENTS
					ON CONST DOCUMENTS	SUBSEQUENT SUBMITTAL		
	Not Provided For Project	Provided For Project	Not Provided For Project	Provided For Project	Drawing No. or Spec Section	Shop Drawings	Separate Permit & Plans	
FIRE PROTECTION, DETECTION & ALARM EQUIPMENT SYSTEM COMPONENTS	√		√					1
• ROOF GAS PIPING • WATER HEATER GAS PIPING • KITCHEN EQUIP GAS PIPING		√		√	1/P2.1, 1/P4.1, 1/P6.1 1/P4.1 N/A			2 3 4
OTHER EQUIPMENT & SYSTEM COMPONENTS NEEDED FOR CONTINUED OPERATION OF SEISMIC USE GROUP III FACILITIES OR WHOSE FAILURE COULD IMPAIR THEIR CONTINUED OPERATION	√		√					1
• WATER HEATER • POTABLE PIPING • DWV PIPING		√		√	1/P6.1 N/A N/A			5 6 7

1) NOT APPLICABLE TO THIS PROJECT.
2) SEISMIC SHUT OFF VALVE PROVIDED AT METER.
3) WATER HEATER NATURAL GAS PIPING IS ROUTED SUCH THAT THE PIPING IS PROTECTED FROM DAMAGE.
4) COOKING EQUIPMENT IS ALL ELECTRIC.
5) SEE DWG P5.1 FOR DETAILING OF WATER HEATER RESTRAINT SYSTEM.
6) POTABLE PIPING EXEMPT PER TABLE 606.3 PARAGRAPH 3C DUE TO USE OF 3" DIA OR LESS COPPER THROUGH OUT BLDG.
7) DWV PIPING EXEMPT AS PER TABLE 606 DUE TO WEIGHT LESS THAN 5LB/FT AND PVC MATERIAL.



1 BELOW SLAB PLUMBING PLAN

SCALE: 1/4"=1'-0"



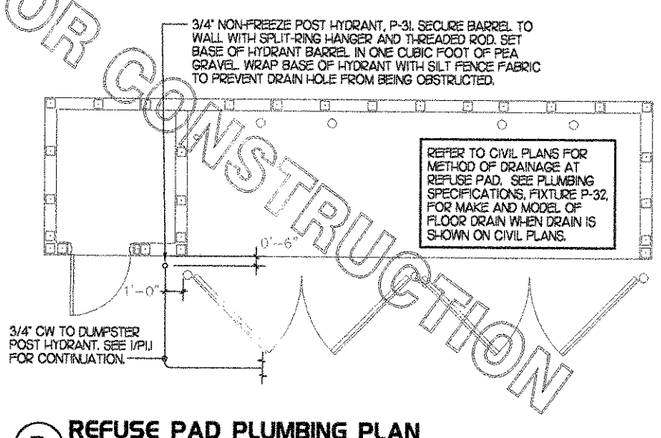
TRAP CAPACITY SUBJECT TO APPROVAL BY STATE OR LOCAL AUTHORITY. CONSTRUCTION MUST BE MONOLITHIC, INCLUDING THE BAFFLE. TRAP MUST BE MEET H-20 TRAFFIC LOADING REQUIREMENTS.

2 GREASE INTERCEPTOR

SCALE: NONE

PIPING LEGEND

COLD WATER (CW)	—o—
HOT WATER (HW)	—oo—
TEMPERED WATER (TW)	—ooo—
PRE-FILTERED WATER (PW)	—oooo—
FILTERED WATER (FW)	—oooo—
FW TO COFFEE/TEA (FW2)	—oooo—
WASTE	———



3 REFUSE PAD PLUMBING PLAN

SCALE: 1/4"=1'-0"

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Revisions:

Mark	Date	By
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COMMENTS.		

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Mark	Date	By

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SHEET TITLE
BELOW SLAB PLUMBING PLAN

DWG EDITION 05.9
REVISION –

Job No. : 6051
Store : 1976
Date : 5/26/06
Drawn By : RWW
Checked By: RDB

Sheet
P-1.1

4. HELIUM GAS PIPING NOTES

1. HELIUM PIPING, FITTINGS AND EQUIPMENT SHALL BE WESTERN WESTWINDS OR EQUAL. MODEL NUMBERS LISTED HERE ARE WESTERN WESTWINDS. PHONE = 1-800 783-8590.
2. HELIUM TANK SHALL BE PROVIDED BY CHICK-FIL-A THROUGH LOCAL COMPRESSED GAS VENDOR. PLUMBER SHALL COORDINATE INITIAL DELIVERY AND INSTALLATION OF TANK WITH GENERAL CONTRACTOR, LOCAL STORE OPERATOR AND CHICK-FIL-A CONSTRUCTION MANAGER. GENERAL CONTRACTOR TO PROVIDE SAFETY CHAIN AT TANK PER TANK PROVIDER RECOMMENDATION.
3. ROUTE 2" SCHED 40 PVC HELIUM HOSE CONDUIT OUT THRU EXTERIOR WALL 70" AFF AND 30" FROM EXIT DOOR. PROVIDE CHROME ESCUTCHEON AT WALL WITH 45 DEGREE ELBOW TIGHT TO ESCUTCHEON, POINTED DOWN. TERMINATE OPPOSITE END OF CONDUIT 12" ABOVE CEILING WITH 6" LONG HORIZONTAL PIPE STUBBED INTO SPACE AND ANGLED TOWARD MULTI-PURPOSE AREA.
4. HELIUM GAS PIPING SHALL BE PBS-XXXH FLEXIBLE HELIUM HOSE. ("XXX" IN WESTERN WESTWINDS MODEL NUMBER INDICATES HOSE LENGTH AND SHALL BE DETERMINED BY THE PLUMBING CONTRACTOR BASED ON FIELD CONDITIONS.) ROUTE HOSE FROM HELIUM TANK REGULATOR TO J-BOX AT BREAK AREA. SURFACE MOUNT HOSE TIGHT TO SERVICE YARD WALL AND WITHIN 2" CONDUIT INTO BUILDING. ROUTE HOSE ABOVE CEILING FROM CONDUIT STUB TO MULTIPURPOSE AREA. SURFACE MOUNT HOSE TO WALL IN MULTI-PURPOSE AREA. SECURE HOSE TO WALLS AND ROOF JOISTS WITH RUBBER INSULATED PIPE CLAMPS EQUAL TO GARDNER-BENDER MODEL P70-1550 SPACED 3'-0" ON CENTER. TERMINATE HOSE AT HELIUM TANK 5'-0" AFF WITH 5'-0" OF SLACK AT HOSE END FOR CONNECTION TO REGULATOR.
5. PROVIDE MODEL B1-GHT REGULATOR FOR INSTALLATION ON HELIUM TANK. COORDINATE DELIVERY OF INITIAL TANK ORDER WITH GENERAL CONTRACTOR AND CHICK-FIL-A PROJECT MANAGER TO ENSURE TANK IS ON SITE WHEN REGULATOR IS INSTALLED. MOUNT REGULATOR ON TANK AND SET PRESSURE AT 100 PSIG. CONNECT HELIUM HOSE TO REGULATOR OUTLET.
6. INSTALL 2X4 METAL J-BOX WITH MODEL TV TILT VALVE AND MODEL 207 SHUT-OFF VALVE AS SHOWN ON DETAIL 6/P-2.1. ENSURE TILT VALVE AND HOSE INSTALLATION IS COMPLETE AND LEAK TESTED PRIOR TO DELIVERY OF INITIAL HELIUM TANK.
7. PLUMBER TO VERIFY HELIUM HOSE LENGTH IN THE FIELD AND ORDER HOSE ACCORDING TO THE LENGTH REQUIRED. CONNECTION AT REMOTE SHUT-OFF VALVE AND AT REGULATOR SHALL BE VIA FACTORY APPLIED HOSE END CONNECTIONS. HOSE SHALL NOT BE CUT OR SPLICED.
8. PROVIDE PIPE LABELS AT A MINIMUM OF 15'-0" INTERVALS STATING "HELIUM 100 PSI". MARKERS SHALL BE SETON 21948 OR EQUAL.

3. SHEET NOTES

1. COORDINATE VENT TERMINAL LOCATIONS WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM CLEARANCE REQUIRED BY CODE.
2. HOLD ALL PIPING ABOVE THE CEILING TIGHT TO STRUCTURE. DUCT LOCATIONS TAKE PRIORITY. SEE DRAWING M1.1 FOR DUCT LAYOUT. COORDINATE CONFLICTS WITH GC.

KEY NOTES

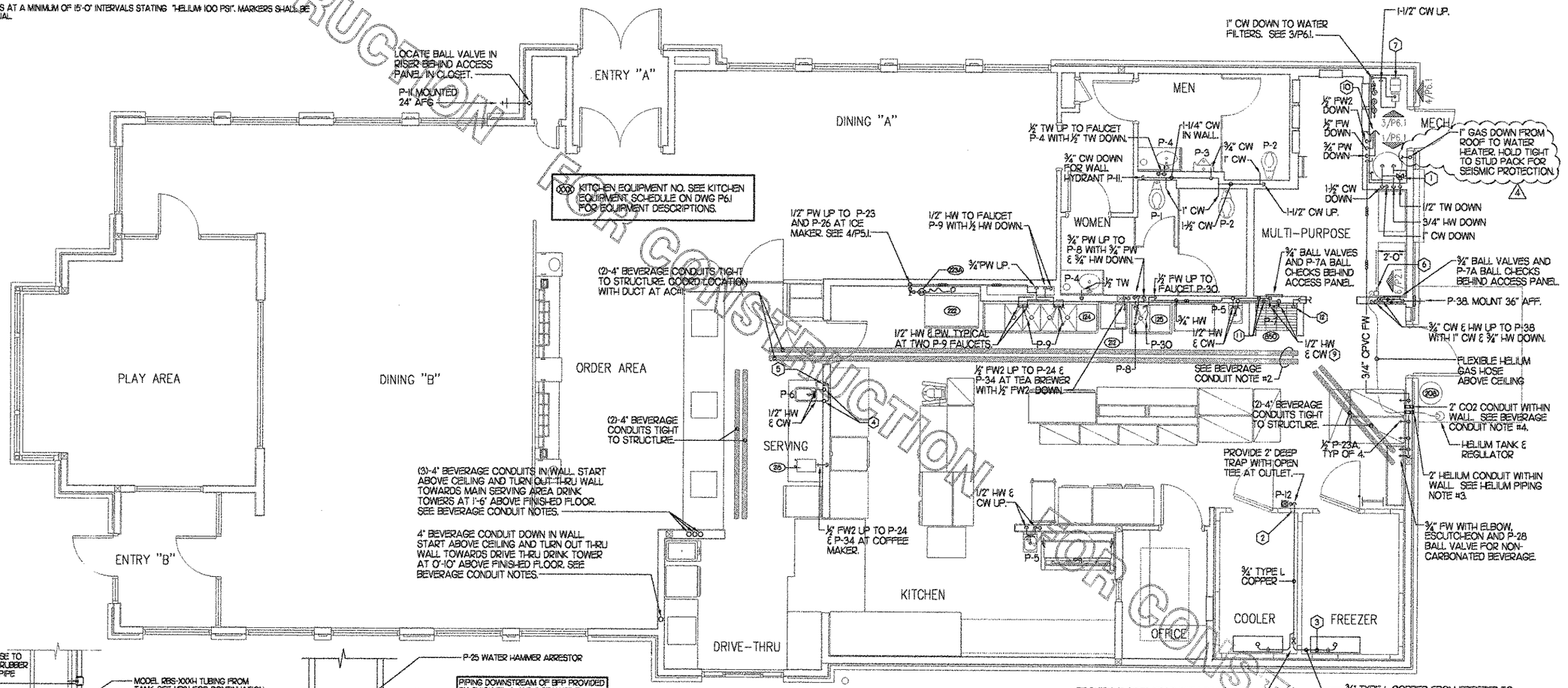
1. COORDINATE PIPING LOCATIONS SO AS NOT TO INTERFERE WITH WATER HEATER COMBUSTION AIR PIPING SHOWN ON DWG M1.1.
2. TURN ¾" CONDENSATE PIPING OUT OF COOLER AND DOWN INTO FUNNEL DRAIN P-12. SECURE PIPING TO COOLER WALL WITH RUBBER INSULATED PIPE CLAMPS TO PREVENT GALVANIC CORROSION. SEAL ALL PENETRATIONS IN WALLS WITH PERMAGUM CORD. PROVIDE TRAP IN CONDENSATE DRAIN OUTSIDE COOLER.
3. APPLY RAYCHEM XL-TRACE, MODEL 5XL-1, SELF REGULATING HEATING CABLE. USE END SEAL KIT FROM MFR.
4. ¾" CW & ½" HW UP FROM SLAB. SEE 2/P-5.1 FOR CONTINUATION.
5. 1/2" CW DOWN TO TRAP PRIMER, P-33. SEE WATER RISER 2/P5.1.
6. J-BOX AND HELIUM TILT VALVE ASSEMBLY ON WALL. SEE 6/P2.1.
7. POTABLE WATER SYSTEM BOOSTER PUMP LOCATED ON SHELF. SEE DETAIL 4/P6.1.
8. ONE ¾" PW LINE UP WITH ONE ¾" AND ONE ½" PW BACK DOWN.
9. ½" HOT AND CW WITH BALL CHECKS, P-7A, TO FAUCET SET, P-7. SEE RISER DIAGRAM 2/P5.1.
10. PW, FW, FW2 AND CPVC FW FROM WATER FILTER ASSEMBLY. SEE DETAIL 4/P6.1.
11. 1" CW & ¾" HW UP FROM SLAB. SEE 2/P-5.1 FOR CONTINUATION.
12. 1-½" INSULATED COPPER CONDENSATE PIPING WITHIN WALL DOWN FROM ROOF. TERMINATE OVER MOP SINK 1'-0" ABOVE GRATE WITH 90 DEGREE ELBOW AND ESCUTCHEON. SEE 1/P4.1 FOR CONTINUATION.

2. BEVERAGE CONDUIT NOTES

1. ROUTE BEVERAGE SYSTEM PIPING OVERHEAD FROM BULK CO2 TANK TO THE BEVERAGE RACK WITH 2" SCH 40 PVC CONDUIT AND FROM THE BEVERAGE RACK TO DRINK TOWERS IN TWO (2)-4" SCH 40 PVC CONDUITS. ALL CONDUIT SHALL BE HELD TIGHT TO STRUCTURE AND SUPPORTED WITH THREADED ROD AND CLEVIS HANGERS AT INTERVALS SHOWN IN SPECIFICATIONS FOR HORIZONTAL OVERHEAD PIPING. COORDINATE ROUTING WITH THE GENERAL CONTRACTOR TO AVOID MECHANICAL AND ELECTRICAL SYSTEMS.
2. THREE SEPARATE RUNS OF 4" CONDUIT MUST BE INSTALLED DUE TO LOCATION OF MAIN SUPPLY DUCT RUN FOR KITCHEN A/C. SEE DWG M1.1. CONDUIT RUN IN REAR OF KITCHEN SHALL BE ROUTED BETWEEN THE DUCT DROPS AT AC#1. SEE SHEET M-1.1 FOR LOCATION OF AC UNITS.
3. TURN THE 4" CONDUIT DOWN THROUGH THE CEILING AT THE BEVERAGE RACK AND PROVIDE CHROMED ESCUTCHEONS AT PENETRATIONS. TERMINATE OPPOSITE END ABOVE CEILING OVER SERVING AREA WHERE SHOWN ON PLANS.
4. ROUTE 2" BULK CO2 CONDUIT OUT THRU EXTERIOR WALL 74" AFF AND 24" FROM EXIT DOOR. PROVIDE CHROME ESCUTCHEON AT WALL WITH 45 DEGREE ELBOW TIGHT TO ESCUTCHEON, POINTED DOWN. TERMINATE OPPOSITE END OF CONDUIT 116" AFF WITH 45 DEGREE ELBOW TIGHT TO WALL ESCUTCHEON. USE 2" SWEEPS WITHIN WALLS.
5. PROVIDE A 4" PVC SCH 40 CONDUIT DOWN IN WALL BEHIND DRIVE-THRU DRINK TOWER EXTENDING FROM ABOVE CEILING DOWN INTO CABINETRY BEHIND DRINK TOWER.
6. PROVIDE THREE (3)-4" PVC SCH 40 CONDUITS DOWN IN WING WALL ADJACENT TO ICE CREAM MACHINE EXTENDING FROM ABOVE CEILING DOWN INTO CABINETRY FOR MAIN SERVING AREA DRINK TOWERS WITH 1/8TH STREET BEND FITTINGS. CUT FITTINGS FLUSH WITH FINISHED WALL.

NOTE TO WATER HEATER INSTALLER:

POSITION VALVES AND TRIM IN WATER HEATER CLOSET SUCH THAT VISIBLE OBSERVATION OF VALVES AND TRIM IS UNOBSTRUCTED AND SUCH THAT ACCESS FOR OPERATION OR REPAIR IS POSSIBLE WITHOUT USE OF STEP LADDERS OR ANY NEED TO DISASSEMBLE ANY COMPONENTS.



1 WATER PIPING PLAN

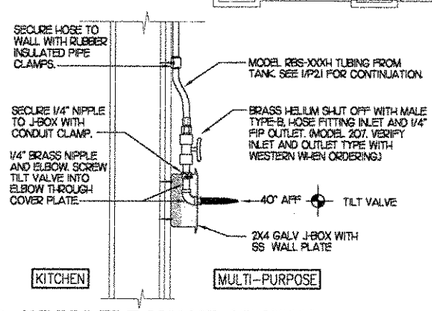
SCALE: 1/4"=1'-0"

NOTE TO WALK-IN CONDENSATE PIPING INSTALLER:

INSTALL PIPING TIGHT TO WALL SO AS NOT TO INTERFERE WITH COOLER AND FREEZER SHELVES. PROVIDE UNION FITTINGS IMMEDIATELY DOWNSTREAM OF CONNECTION TO EVAPORATORS.

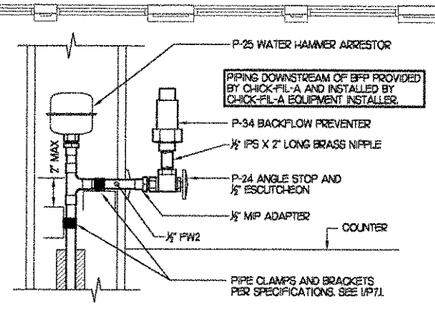
PIPING LEGEND

COLD WATER (CW)	—o—
HOT WATER (HW)	—oo—
TEMPERED WATER (TW)	—ooo—
PRE-FILTERED WATER (PW)	—oooo—
FILTERED WATER (FW)	—ooooo—
FW TO COFFEE/TEA (FW2)	—oooooo—
HELIUM GAS	—HE—



6 HELIUM TILT VALVE AT WALL

SCALE: NONE



5 COFFEE & TEA BREWER STOP & BFP

SCALE: NONE

NOT FOR CONSTRUCTION

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SHEET TITLE
ABOVE SLAB PLUMBING PLAN

DWG EDITION 05.9
REVISION –

Job No. : 6051
Store : 1976
Date : 5/26/06
Drawn By : RWW
Checked By: RDB

Sheet
P-2.1

BELOW SLAB WATER DISTRIBUTION LEGEND

TAG	DESCRIPTION	EQUIPMENT SERVED
FW2	FILTERED WATER	TEA BREWER AND COFFEE BREWER
PW	PRE FILTERED WATER	RIGHT SIDE OF EACH FAUCET P-9 ON POT SINK, RIGHT SIDE OF FAUCET P-8 ON PREP SINK, AND ICE MAKER.
TW	TEMPERED WATER	SINGLE LINE FAUCET ON LAVATORY P-4.
CW	COLD WATER	WATER CLOSETS P-1 & P-2, URINAL P-3, HAND SINKS P-5 AND P-6, MOP SINK P-7, WALL HYDRANT P-11, TRAP PRIMER P-33, MIXING WALL HYDRANT P-38.
HW	HOT WATER	HAND SINKS P-5 AND P-6, MOP SINK P-7, LEFT SIDE OF PREP SINK FAUCET P-8, LEFT SIDE OF POT SINK FAUCETS P-9, TEMPERING VALVE P-20, MIXING WALL HYDRANT P-38.

COORDINATE LEGEND

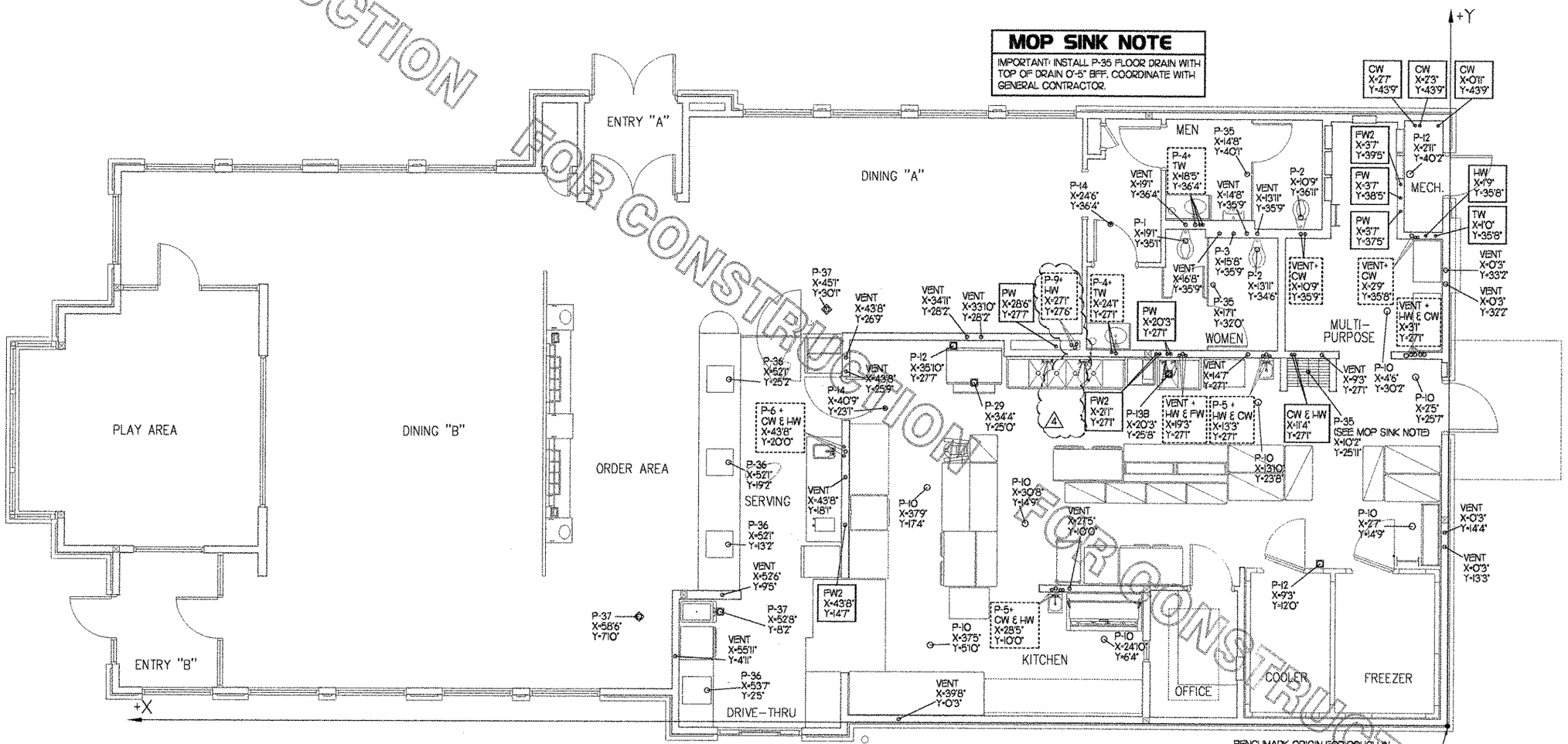
TYPE	EXAMPLE	PIPE COORDINATES
#1	FW2 X=43'8" Y=14'7"	APPLIES TO SINGLE WATER PIPING ROUGH PENETRATION ONLY. APPLIES TO WATER PIPING NOT ADJACENT TO DWV STACK. SEE P1.1 FOR CONTINUATION.
#2	PW X=43'8" Y=14'7"	SAME AS TYPE #1 ABOVE, EXCEPT FOR MULTIPLE PIPE PENETRATIONS.
#3	P-5 + CW & HW X=28'8" Y=10'0"	APPLIES TO WATER PIPING AND DWV PENETRATION. COORDINATE INDICATES CENTER OF DWV STACK. LOCATE WATER PENETRATION TIGHT TO DWV STACK.
#4	VENT X=43'8" Y=14'7"	APPLIES TO DWV PENETRATION ONLY.

NOTE: TRAP PRIMER PIPING AT WATER CLOSETS IS NOT SHOWN ON THIS PLAN. SEE P1.1 FOR TRAP PRIMER LOCATIONS.

FOR CONSTRUCTION

MOP SINK NOTE

IMPORTANT: INSTALL P-35 FLOOR DRAIN WITH TOP OF DRAIN 0'-5" BFF. COORDINATE WITH GENERAL CONTRACTOR.



BENCH-MARK ORIGIN FOR ROUGH-IN COORDINATES IS LOCATED AT OUTSIDE FACE OF SLAB EDGE. SEE WALL SECTION 5A/S3.1 ON STRUCTURAL PLANS.

IMPORTANT NOTE TO INSTALLER

EXERCISE CAUTION WHEN LOCATING ROUGH-INS AT:
- -DRIVE THRU AREA
- -CUSTOMER WAIT AREA

DO NOT PULL TAPE FROM THE SLAB EDGE AT THESE AREAS WITHOUT COMPENSATING FOR DIFFERENCE IN OFFSETS.

1 SLAB ROUGH-IN PLAN

1/4"=1'-0"

FOR CONSTRUCTION

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SHEET TITLE
SLAB ROUGH-IN PLAN

DWG EDITION 05.9
REVISION -

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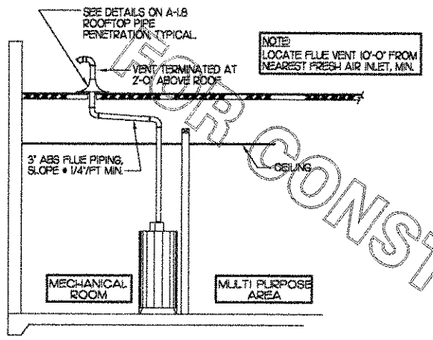
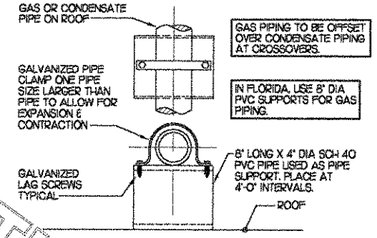
P-3.1

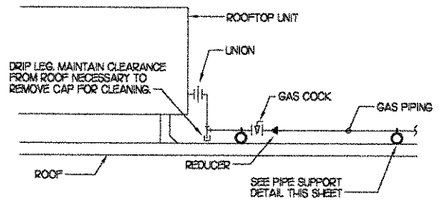
6.	GAS CONNECTION SCHEDULE
EQUIPMENT	GAS LOAD
AC#1	480,000 BTUS
AC#2	240,000 BTUS
AC#3	240,000 BTUS
AC#4	240,000 BTUS
AC#5	120,000 BTUS
WATER HEATER	75,000 BTUS
TOTAL CONNECTED LOAD	1,400,000 BTUS
REMARKS:	1) EQUIVALENT TO 1,400.0 CFH 2) 7" W.C. DELIVERY PRESSURE



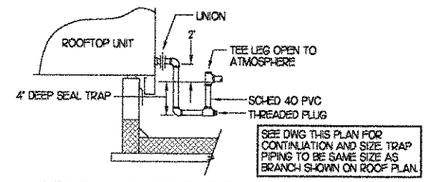
5 WATER HEATER VENT/C.A. ROUTING
NO SCALE



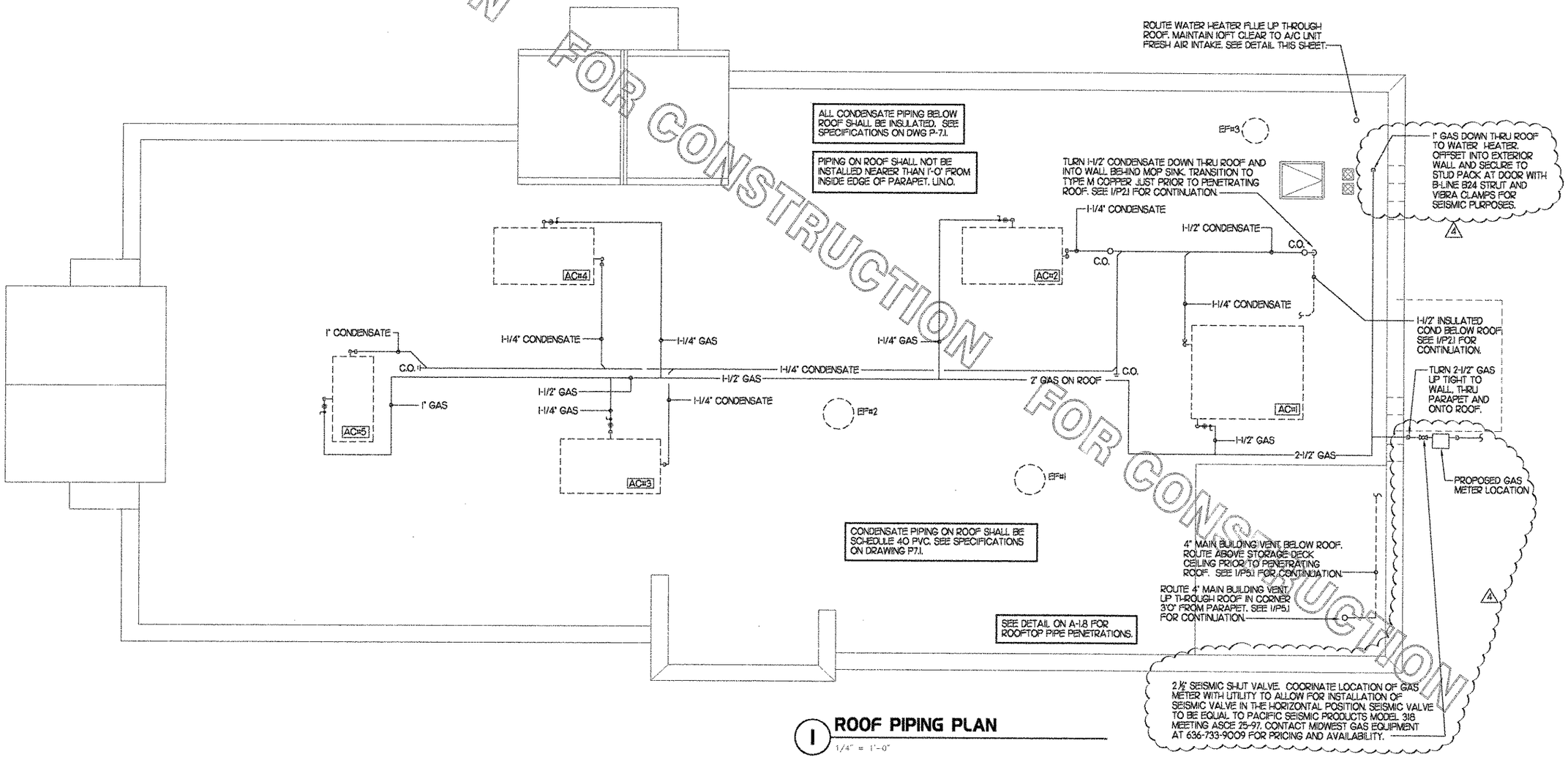
4 PIPE ON ROOF SUPPORT
NO SCALE



3 GAS PIPING AT RTU
NO SCALE



2 CONDENSATE DRAIN PIPING
NO SCALE



1 ROOF PIPING PLAN
1/4" = 1'-0"

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SHEET TITLE
ROOF PLAN AND DETAILS

DWG EDITION 05.9
REVISION —

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Sheet
P-4.1

COORDINATE VENT TERMINAL LOCATION WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 15' CLEARANCE.

PIPING LEGEND

COLD WATER (CW)	
HOT WATER (HW)	
TEMPERED WATER (TW)	
FILTERED WATER (FW)	
FW TO COFFEE AND TEA (FW2)	
PRE-FILTERED WATER (PW)	
BELOW SLAB WATER	
VENT	
SANITARY	W

(XXX) KITCHEN EQUIPMENT NO. SEE KITCHEN EQUIPMENT SCHEDULE ON DWG P6.1 FOR EQUIPMENT DESCRIPTIONS.

FOR CONSTRUCTION

1 WASTE RISER DIAGRAM - KITCHEN

NO SCALE

3 WASTE RISER DIAGRAM - RESTROOMS

NO SCALE

2 WATER RISER DIAGRAM

NO SCALE

4 ICE MACHINE PIPING

NO SCALE

NOTE: ICEPRO DEVICE PROVIDED BY CHICK-FIL-A, INSTALLED BY PLUMBER.

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SHEET TITLE
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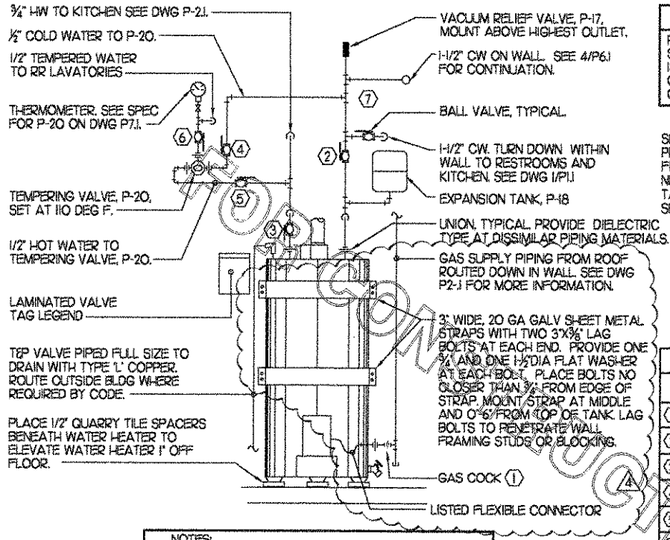


NOTES:
1. COORDINATE PIPING WITH MECHANICAL CONTRACTOR DUE TO VENT AND COMBUSTION AIR PIPING IN CLOSET.
2. SEE DETAIL 5/P4.1 FOR FLUE PIPING.

1 PIPING AT WATER HEATER

NO SCALE

NOTE TO WATER HEATER INSTALLER:

POSITION VALVES AND TRIM IN WATER HEATER CLOSET SUCH THAT VISIBLE OBSERVATION OF VALVES AND TRIM IS UNOBSTRUCTED AND SO THAT ACCESS FOR OPERATION OR REPAIR IS POSSIBLE WITHOUT USE OF STEP LADDERS OR ANY NEED TO DISASSEMBLE ANY COMPONENTS.

SEE VALVE TAG LEGEND FOR DESCRIPTION TYPICAL. PROVIDE 1-1/2" ROUND BRASS TAG WITH 1/2" HIGH BLACK FILLED LETTERING. EACH TAG SHALL INDICATE VALVE NUMBER AND WILL ALSO HAVE "PLBG" STAMPED ON THE TAG IN 1/4" HIGH BLACK FILLED LETTERING EQUAL TO SEXTON #M4506. HANG WITH BRASS JACK CHAIN.

LAMINATE THE VALVE TAG LEGEND AND MOUNT PERMANENTLY WHERE SHOWN ON WATER HEATER DETAIL IN AN ALUMINUM FRAME EQUAL TO SETON #37386.

WATER HEATER VALVE TAG LEGEND

VALVE	NORMALLY OPEN OR NORMALLY CLOSED
(1) GAS TO WATER HEATER	NORMALLY OPEN
(2) WATER HEATER INLET	NORMALLY OPEN
(3) WATER HEATER OUTLET	NORMALLY OPEN
(4) TEMPERING VALVE COLD - IN	NORMALLY OPEN
(5) TEMPERING VALVE HOT - IN	NORMALLY OPEN
(6) TEMPERING VALVE WARM - OUT	NORMALLY OPEN
(7) RESTROOM & KITCHEN COLD WATER	NORMALLY OPEN

NOTE: HANDLE IN-LINE WITH PIPING = VALVE OPEN

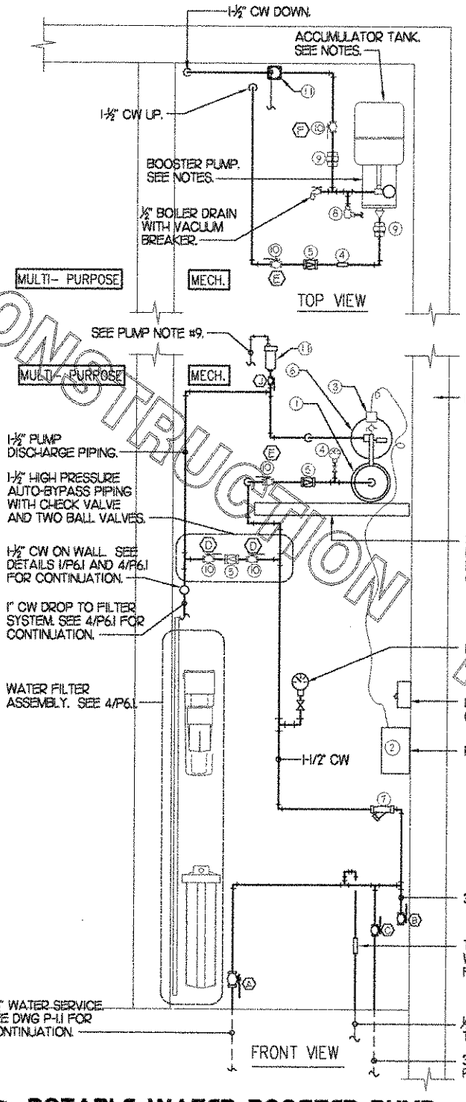
5. KITCHEN EQUIPMENT SCHEDULE

TAG	DESCRIPTION	PW	FW	FW2	CW	HW	WASTE	ROUGH-IN
(124)	POT SINK	(2) 1/2"	X	X	X	(2) 1/2"	INDIRECT	P-9 SEE K-4.1
(125)	VEGETABLE PREP SINK	1/2"	1/2"	X	X	1/2"	INDIRECT	P-8 & P-30 SEE K-4.1
(207)	CARBONATOR	X	1/2"	X	X	X	X	P-23A SEE K-4.1
(208)	BULK CO2 TANK	X	X	X	X	X	X	X
(212)	TEA BREWER	X	X	1/2"	X	X	X	P-24 SEE K-4.1
(215)	COFFEE MAKER	X	X	1/2"	X	X	X	P-24 SEE K-4.1
(221)	ICE BIN	X	X	X	X	X	INDIRECT	SEE DET 4/P5.1
(222)	ICE MAKER	1/2"	X	X	X	X	INDIRECT	P-23 SEE K-4.1
(223)	SELECTO WATER FILTERS	3/4"	3/4"	3/4"	3/4"	X	X	SEE DET 4/P6.1
(224)	ICEPRO AT ICEMAKER	3/4"	X	X	X	X	X	SEE DET 4/P5.1 & K-4.1
(450)	MOP SINK	X	X	X	1/2"	1/2"	INDIRECT	P-7 SEE K-4.1

2. FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	PW	FW	FW2	CW	TW	HW	WASTE
P-1	WATER CLOSET - FLOOR MTD	X	X	X	1"	X	X	4"
P-2	WATER CLOSET - ADA FLOOR MTD	X	X	X	1"	X	X	4"
P-3	URINAL - ADA WALL HUNG	X	X	X	3/4"	X	X	2"
P-4	LAVATORY - ADA COUNTER TOP	X	X	X	X	1/2"	X	1-1/4"
P-5	KITCHEN HAND SINK - WALL HUNG	X	X	X	1/2"	X	1/2"	1-1/2"
P-6	SINGLE COMP SINK - COUNTERTOP	X	X	X	1/2"	X	1/2"	1-1/2"
P-7	MOP SINK	X	X	X	1/2"	X	1/2"	3"
P-7A	MOP SINK CHECK VALVES	X	X	X	1/2"	X	1/2"	X
P-8	VEGETABLE PREP SINK	1/2"	X	X	X	X	1/2"	1-1/2"
P-9	POT SINK	1/2"	X	X	X	X	1/2"	1-1/2"
P-10	FLOOR DRAIN (ROUND TOP)	X	X	X	X	X	X	3"
P-11	WALL HYDRANT (NON FREEZE)	X	X	X	3/4"	X	X	X
P-12	FUNNEL DRAIN (3")	X	X	X	X	X	X	3"
P-13A	(NOT USED)	X	X	X	X	X	X	(X) 4
P-13B	FLOOR SINK (3") 8" TOP	X	X	X	X	X	X	3"
P-14	CLEANOUT INSIDE BUILDING	X	X	X	X	X	X	SEE PLAN
P-15	CLEANOUT OUTSIDE BUILDING	X	X	X	X	X	X	SEE PLAN
P-16	TRAP PRIMER AT FLUSH VALVE	X	X	X	1/2"	X	X	X
P-17	VACUUM RELIEF VALVE	X	X	X	3/4"	X	X	X
P-18	EXPANSION TANK	X	X	X	3/4"	X	X	X
P-19	WATER HEATER	X	X	X	1"	X	1"	X
P-20	TEMPERING VALVE	X	X	X	1/2"	1/2"	1/2"	X
P-21	NOT USED	X	X	X	X	X	X	X
P-22	PRESSURE REDUCING VALVE	X	X	X	1-1/4"	X	X	X
P-23	UTILITY CONNECTION (ICE MAKER)	1/2"	X	X	X	X	X	X
P-23A	UTILITY CONNECTION (CARBONATORS)	X	1/2"	X	X	X	X	X
P-24	UTILITY CONNECTION (COFFEE & TEA)	X	X	1/2"	X	X	X	X
P-25	SHOCK ABSORBER	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	X
P-26	ICE MACHINE BACKFLOW PREVENTER	1/2"	X	X	X	X	X	X
P-27	WATER PRESSURE GAUGE	X	X	X	1/4"	X	X	X
P-28	UTILITY CONNECTION (NON CARB BEV.)	X	3/4"	X	X	X	X	X
P-29	ICE MACHINE FLOOR SINK	X	X	X	X	X	X	3"
P-30	FILTERED WATER FAUCET	X	1/2"	X	X	X	X	X
P-31	DUMPSTER POST HYDRANT	X	X	X	3/4"	X	X	X
P-32	DUMPSTER DRAIN	X	X	X	X	X	X	3"
P-33	TRAP PRIMER (MECHANICAL TYPE)	X	X	X	1/2"	X	X	X
P-34	DISPENSER BACKFLOW PREVENTER	X	X	1/2"	X	X	X	X
P-35	FLOOR DRAIN (ROUND TOP)	X	X	X	X	X	X	3"
P-36	BEVERAGE TOWER INDIRECT RECEIVER	X	X	X	X	X	X	3"
P-37	FLOOR DRAIN (SQUARE TOP)	X	X	X	1/2"	X	X	3"
P-38	MIXING WALL HYDRANT	X	X	X	3/4"	X	3/4"	X
P-39	BOOSTER PUMP	X	X	X	1-1/4"	X	X	X

NOTE: REFER TO FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT INSTALLATION AND HOOK-UP RESPONSIBILITIES.



3 POTABLE WATER BOOSTER PUMP

NO SCALE

PUMP SYSTEM PURCHASE & INSTALLATION NOTES:

1. ALL ITEMS LISTED IN PUMP SYSTEM LEGEND SHALL BE PROVIDED BY PLUMBER. ITEMS 1, 2, AND 3 SHALL BE OBTAINED THRU SOUTHEAST PUMP & EQUIPMENT SEE SHEET P-7.1.
2. BEFORE STARTING THE PUMP, PRIME BY REMOVING THE FILL PLUG TO ALLOW WATER TO FLOW THROUGH THE CASING. FAILURE TO DO THIS MAY DAMAGE THE PUMP.
3. MAKE PUMP CONTROL AND POWER CONNECTIONS IN THE FIELD AND WIRE PRESSURE TRANSDUCER TO PUMP CONTROLLER AS SHOWN IN INSTALLATION MANUAL. BOLT PUMP SECURELY TO SHELF.
4. PROGRAM PUMP TO MAINTAIN 80 PSI DISCHARGE.
5. MOUNT PUMP CONTROLLER TO WALL.
6. SET ACCUMULATOR TANK PRECHARGE TO 65 PSI.
7. SET SAFETY PRESSURE RELIEF VALVE FOR 95 PSI. ROUTE 1/2" RELIEF LINE DOWN IN CORNER AND BELOW EDGE OF FILTER BACKBOARD TO FUNNEL DRAIN P-12.
8. INSTALL PUMP ON SHELF ON ½" THICK 10 X 10 RUBBER PAD. BOLT PUMP BASE TO SHELF WITH FOUR ¼" BOLTS, FENDER WASHERS, AND LOCK NUTS WITH NYLON INSERTS.
9. ROUTE ¾" HARD COPPER TUBING FROM EACH AIR VENT OUTLET TO FLOOR DRAIN P-12. PROVIDE 2" AIR GAP AT ALL VENT TUBING AT FUNNEL DRAIN.

PUMP SYSTEM LEGEND

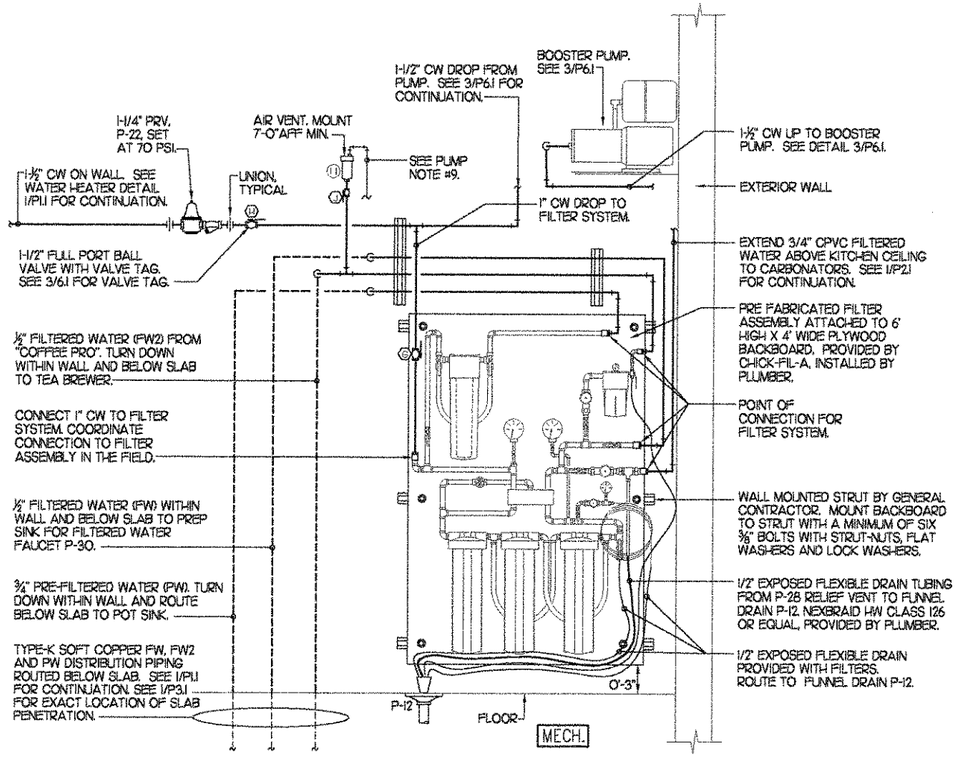
(1)	PUMP (P-39)
(2)	PUMP CONTROLLER
(3)	PRESSURE TRANSDUCER
(4)	PRESSURE GAUGE (P-27)
(5)	CHECK VALVE
(6)	ACCUMULATOR TANK
(7)	STRAINER
(8)	RELIEF VALVE
(9)	UNION
(10)	BALL VALVE
(11)	AIR VENT

LAMINATE THE VALVE TAG LEGEND AND MOUNT PERMANENTLY NEAR PUMP CONTROLLER IN AN ALUMINUM FRAME EQUAL TO SETON #37386. SEE WATER DETAIL FOR VALVE TAG REQUIREMENTS.

PUMP SYSTEM VALVE TAG LEGEND

VALVE	NORMALLY OPEN OR NORMALLY CLOSED
(A) MAIN BUILDING WATER	NORMALLY OPEN
(B) MAIN DRAIN	NORMALLY CLOSED
(C) DUMPSTER POST HYDRANT	NORMALLY OPEN
(D) AUTO BYPASS (TYPICAL OF 2) (ISOLATES BYPASS CHECK VALVE)	NORMALLY OPEN
(E) PUMP INLET SHUT-OFF	NORMALLY OPEN
(F) PUMP OUTLET SHUT-OFF	NORMALLY OPEN
(G) MAIN FILTER SYSTEM INLET	NORMALLY OPEN
(H) WATER HEATER, RESTROOMS & KITCHEN (NON-FILTERED COLD WATER)	NORMALLY OPEN
(I) AIR VENT SERVICE VALVE	NORMALLY OPEN

NOTE: HANDLE IN-LINE WITH PIPING = VALVE OPEN



4 PIPING AT WATER FILTER SYSTEM

NO SCALE

FOR CONSTRUCTION REVIEW
FOR CONSTRUCTION
FOR CONSTRUCTION

Chick-fil-A, Inc.
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
4	01/23/07	BUILDING DEPT COMMENTS.

Seal

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SHEET TITLE
DETAILS & SCHEDULES

DWG EDITION 05.9
REVISION -

Job No. : 6051
Store : 1976
Date : 5/26/06
Drawn By : RWW
Checked By: RDB

Sheet
P-6.1

I. PLUMBING SPECIFICATIONS

PART 1 - PRODUCTS

1. POTABLE WATER PIPING ABOVE SLAB SHALL BE TYPE 'L' HARD DRAWN COPPER.

2. POTABLE WATER PIPING BELOW SLAB AND OUTSIDE SHALL BE TYPE 'K' SOFT ANNEALED SEAMLESS. NO JOINTS SHALL BE ALLOWED BELOW SLAB. POTABLE WATER PIPING BELOW GRADE SHALL BE SLEEVED WITH POLY SLEEVE AS MADE BY IPS WATER-TITE. ALL SLAB PENETRATIONS SHALL BE SLEEVED TO PROTECT PIPING FROM CORROSION BY CONCRETE.

3. COPPER PIPE FITTINGS SHALL BE WROUGHT COPPER SWEEP PATTERN FITTINGS, SOLDERED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-FOS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS FB3-A OR FB3-C.

4. FILTERED WATER PIPING TO SOFT DRINK CARBONATORS SHALL BE FLOWGUARD GOLD CPVC AS MANUFACTURED BY THOMPSON PLASTICS OR CHARLOTTE PIPE AND MEETING ASTM D-2846. SEE PLANS FOR LOCATION OF CPVC PIPING.

5. CPVC FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE MEETING ASTM D-2846 WITH CEMENTS MEETING ASTM F-493 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.

6. ALL HVAC CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2665.

7. ALL SANITARY WASTE, VENT, STORM DRAINAGE PIPING AND FITTINGS INSIDE THE BUILDING, ABOVE AND BELOW GRADE, SHALL BE SOLID WALL SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2665. FOAM CORE AND/OR CELLULAR CORE PVC PIPING SHALL NOT BE ALLOWED. PVC PIPING OUTSIDE THE BUILDING, BELOW GRADE, SHALL BE TYPE SDR-35 MEETING ASTM D-3034.

8. PVC-DWV FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB MEETING ASTM D-1784 D-2665 AND D-3311. CEMENTS SHALL MEET ASTM D-2564 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.

9. PROVIDE 1" THICK PIPE INSULATION FOR ALL ABOVE SLAB POTABLE WATER PIPING. PROVIDE ½" THICK INSULATION FOR ALL ABOVE SLAB CONDENSATE PIPING AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 1000F 25/50 FIBERGLASS PIPE COVERING, WHITE KRAFT PAPER VAPOR BARRIER (0.2 PERMS) BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS. MINIMUM THERMAL CONDUCTIVITY OF 0.23 AT 75F. LONGITUDINAL LAP SHALL BE SELF SEALING.

10. PIPE INSULATION AND COVERINGS SHALL HAVE A RATING OF NOT GREATER THAN 25 FLAME SPREAD, NO HIGHER THAN 50 SMOKE DEVELOPED, AND NO MORE THAN 50 FUEL CONTRIBUTED. THE ONLY EXCEPTION SHALL BE ARMAFLEX II, WHEN SPECIFIED, WHICH SHALL NOT EXCEED 100 SMOKE DEVELOPED.

11. A PVC 25/50 PRE-FORMED COVER SHALL BE PROVIDED AT ALL INSULATED PIPING FITTINGS EQUAL TO PROTO PVC CORP LOSMOKE, 800-875-7768.

12. ALL NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL MEETING ASTM A53 WITH SCREWED OR WELDED FITTINGS AND GASKET TYPE UNIONS AND FLANGES. PIPING UNDER 2-½" SHALL BE SHALL BE JOINED WITH BLACK 150 POUND MALLEABLE IRON SCREWED FITTINGS. PIPING 3" AND LARGER SHALL BE WELDED.

PART 2 - EXECUTION

1. EXCAVATION, BACKFILLING AND TRENCH WORK SHALL BE DONE IN ACCORDANCE WITH O.S.H.A. AND EXISTING SAFETY STANDARDS.

   A. PROVIDE SHORING AND CLEANING NECESSARY TO KEEP TRENCHES IN GOOD WORKING CONDITION, INCLUDING PUMPING OUT WATER.

   B. IN MOSTLY ROCK MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH CRUSHED LIMESTONE. GRAVEL SHALL BE SCOOPED OUT UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

   C. IN MOSTLY EARTH OR SAND MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH FINE SAND OR GRAVEL. TRENCH BOTTOM SHALL BE SCOOPED OUT AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

   D. BACKFILLING AND TAMPING SHALL BE CAREFULLY DONE BY HAND SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK FREE EARTH, CRUSHED STONE OR SAND UNTIL THE PIPE IS COVERED TO A DEPTH OF AT LEAST 12". BACKFILL SHALL BE ACCOMPLISHED IN SUCCESIVE 6" LAYERS. THE REST OF THE FILL-UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH.

   E. ACCEPTABLE SOIL MATERIALS FOR BACK FILL AND FILL SHALL BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION. DEBRIS, WASTE, FROZEN MATERIALS AND OTHER DELETERIOUS MATTER HAVING A PLASTICITY INDEX LESS THAN 30. BACKFILL SHALL BE ACCOMPLISHED IN LAYERS OF NOT MORE THAN 6" AND EACH LAYER SHALL BE COMPACTED. THE LAST 12" OF BACKFILL SHALL BE ROCK FREE TOPSOIL.

   F. SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

2. PRESSURE REDUCING VALVE SHALL BE SET AT 70 PSI MAXIMUM. PRESSURE RELIEF VALVE SHALL BE SET AT 80 PSI MAXIMUM.

3. EXPOSED HOT AND COLD WATER TRIM IN FINISHED AREAS SHALL BE CHROME FINISHED.

4. ACCEPTABLE METHODS OF PIPE SUPPORT WITHIN WALLS SHALL BE THE SUMNER SYSTEM, POSIPIX, STAKPIX, PIPEPIX, HOLDRITE OR CHANNEL.

5. PROVIDE J.R. SMITH OR APPROVED EQUAL SHOCK ABSORBERS #5005 THRU 5050 SIZE AS RECOMMENDED BY MANUFACTURER INSTALLED ON HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR EQUIPMENT WITH QUICK CLOSING VALVES BETWEEN THE LAST TWO FIXTURES AS SHOWN ON THE CONTRACT DRAWINGS. SHOCK ABSORBERS SERVICING FIXTURES WITH FLUSH VALVES SHALL BE SECURELY ANCHORED IN THEIR VERTICAL POSITION.

6. SANITARY WASTE LINES SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 2-1/2" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND LARGER.

7. STORM PIPING SHALL BE SLOPED AT ¼" PER FT (2%) UNLESS NOTED OTHERWISE ON PLANS.

8. SUPPORT HORIZONTAL PIPING ACCORDING TO LOCAL PLUMBING CODE. HANGER RODS SHALL BE SIZED AS FOLLOWS:

NOMINAL PIPE SIZE (IN)	MINIMUM HANGER DIAMETER (IN)
1/2	3/8
3/4 TO 1-1/2	3/8
2 TO 2-1/2	3/8
3 TO 6	1/2

9. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.

10. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT. LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS, FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE.

11. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT.

12. POTABLE WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

13. THE POTABLE WATER SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY BY OPENING OUTLETS AND FLOWING WATER UNTIL IT RUNS CLEAR. AFTER PIPE CLEANING IS COMPLETED, THE STRAINERS SHALL BE REMOVED, CLEANED, AND REPLACED. THEN THE ENTIRE POTABLE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

14. THE SANITARY WASTE SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY WITH FLOWING WATER UNTIL IT RUNS CLEAR.

15. THE ENTIRE SANITARY WASTE SYSTEM AND STORM DRAINAGE SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

16. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

17. ALL GAS PIPING ABOVE ROOF SHALL BE CLEANED FREE OF RUST AND PAINTED WITH COAT OF ZINC RUST PRIMER AND ONE COAT OF ALUMINUM BASE PAINT. METER AND GAS RISER SHALL BE PRIMED AND PAINTED TO MATCH BUILDING. APPLY TWO COATS OF ASPHALTUM BASE PAINT TO PIPING BURIED UNDERGROUND.

PART 3 - PLUMBING FIXTURES

1. ACCEPTABLE MANUFACTURERS

   A. FIXTURES: TOTO, CRANE, ELJER, KOHLER OR AMERICAN STANDARD.

   B. FITTINGS: AS SPECIFIED ON THE PLANS. NO SUBSTITUTIONS ALLOWED.

   C. FLUSH VALVES: SLOAN VALVE COMPANY. NO SUBSTITUTIONS ALLOWED.

   D. TOILET SEATS: BEMIS, CHURCH AND BENEKE.

   E. DRAINS, HYDRANTS, CARRIERS AND SHOCK ABSORBERS: JAY R. SMITH, JONES STEPHENS CORP., ZURN, WADE, OR JOSAM.

   F. ACCESS PANELS: ELMDOR DW SERIES.

2. FIXTURES

P-1 WATER CLOSET: FLOOR MOUNTED, FLUSH VALVE TYPE, ELJER MODEL 111-2125 SIGNATURE, 1.6 GALLON, VITREOUS CHINA, 1-1/2" TOP SPUD, ELONGATED BOWL, SLOAN MODEL NA-8111-CN-CFA BATTERY POWERED FLUSH VALVE. NO SUBSTITUTIONS ACCEPTED. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SLOAN VALVE CO. PLEASE CONTACT SLOAN VALVE'S NATIONAL ACCOUNT DIVISION FOR NATIONAL PRICING AT 800 994-7709. CHURCH 295C WHITE OPEN FRONT SEAT WITH CHECK HINGE. KOHLER K-4350 WELLCOMME OR AMERICAN STANDARD 2234.015 MADERA ARE ACCEPTABLE SUBSTITUTES.

P-2 WATER CLOSET: H.C. ACCESSIBLE, FLOOR MOUNTED, FLUSH VALVE TYPE, ELJER MODEL 111-2145 SIGNATURE, 1.6 GALLON, VITREOUS CHINA, 16-3/4" HIGH, 1-1/2" TOP SPUD, ELONGATED BOWL, SLOAN MODEL NA-8111-TP-CN-CFA BATTERY POWERED FLUSH VALVE. NO SUBSTITUTIONS ACCEPTED. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SLOAN VALVE CO. PLEASE CONTACT SLOAN VALVE'S NATIONAL ACCOUNT DIVISION FOR NATIONAL PRICING AT 800 994-7709. CHURCH 295C WHITE OPEN FRONT SEAT WITH CHECK. KOHLER K-4302 HIGHCREST OR AMERICAN STANDARD 2305.100 ARE ACCEPTABLE SUBSTITUTES.

P-3 URINAL: ELJER CORRECTO, MODEL 161-1030, VITREOUS CHINA, 3/4" TOP SPUD, SLOAN MODEL NA-8186-LO-CN-CFA BATTERY POWERED FLUSH VALVE. NO SUBSTITUTIONS ACCEPTED. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SLOAN VALVE CO. PLEASE CONTACT SLOAN VALVE'S NATIONAL ACCOUNT DIVISION FOR NATIONAL PRICING AT 800 994-7709. KOHLER K-4960-ET BARDON OR AMERICAN STANDARD 6501.010 WASHBROOK ARE ACCEPTABLE SUBSTITUTES.

P-4 LAVATORY ROUGH IN (BUILT-IN COUNTERTOP LAVATORY PROVIDED BY OWNER) SLOAN NA-650-CN-CFA BATTERY POWERED LR. FAUCET. NO SUBSTITUTIONS ACCEPTED. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SLOAN VALVE CO. PLEASE CONTACT SLOAN VALVE'S NATIONAL ACCOUNT DIVISION FOR NATIONAL PRICING AT 800 994-7709. MCGUIRE 175 SUPPLY WITH STOP, MCGUIRE 155-WC GRID DRAIN WITH OFFSET TAILPIECE AND A MCGUIRE 8872 POLISHED CHROME P-TRAP. P-TRAP SHALL BE PARALLEL WITH BACK WALL. PROVIDE A TRUEBRO INC., HANDI LAV-GUARD INSULATION KITS MODELS 101E-Z AND 105E-Z.

P-5 KITCHEN HAND SINK ROUGH IN (SINK AND FAUCET FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE 175 SUPPLIES WITH STOPS AND A MCGUIRE 8912 POLISHED CHROME P-TRAP.

P-6 SERVING COUNTER DROP IN SINK ROUGH IN (SINK AND FAUCET FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE 8912 POLISHED CHROME P-TRAP AND MCGUIRE 175 SUPPLIES WITH STOPS.

P-7 MOP SINK FAUCET: (MOP SINK BUILT BY GENERAL CONTRACTOR) PROVIDE T&S BRASS MODEL B-0665-BSTP FAUCET WITH VACUUM BREAKER, TOP BRACE, 3/4" HOSE THREAD, 8" CENTER SPREAD.

P-7A MOP SINK AND WALL HYDRANT CHECK VALVES: T&S BRASS 1/2" MODEL B-CVVI-2 BALL CHECK.

P-8 VEGETABLE PREP SINK ROUGH-IN (SINK AND FAUCET FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL SINK AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE 177 SUPPLIES WITH STOPS AND 36" RISERS. ASSEMBLE AND MOUNT TWO HANDLE FAUCET WITH PRE-RINSE SPRAY ARM ON LEFT SIDE. ASSEMBLE AND INSTALL P-30 FILTERED WATER FAUCET ON RIGHT SIDE. PROVIDE AND INSTALL COPPER INDIRECT WASTE, NO P-TRAP REQUIRED.

P-9 FOUR COMPARTMENT POT SINK ROUGH-IN (SINK AND FAUCET FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL SINK. ASSEMBLE & MOUNT TWO FAUCETS, AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE 177 SUPPLIES WITH STOPS AND 36" RISERS. ASSEMBLE AND MOUNT ONE TWO HANDLE FAUCET WITH PRE-RINSE SPRAY ARM ON LEFT SIDE AND ONE TWO-HANDLE FAUCET WITH DOUBLE JOINT SPOUT ON RIGHT SIDE. 2" COPPER DWV DRAIN PIPING WITH P-TRAP REQUIRED. INSTALL CLEANOUT AT EACH END OF DRAIN MANIFOLD. (INSTALL ADD-ON FAUCET WITH 18" DOUBLE-JOINT SPOUT AT BASE OF PRE-RINSE RISER.) (4)

P-10 FLOOR DRAIN (3"): JONES STEPHENS CORP D53-144 PVC BODY, BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER.

P-11 WALL HYDRANT (NON-FREEZE): WOODFORD MODEL 67-C AUTOMATIC DRAINING WALL HYDRANT WITH DUAL CHECK BFP, ASSE 1052 APPROVED, WALL CLAMP, "C" STYLE INLET, 4" WOODFORD WALL THICKNESS, POLISHED BRASS FINISH.

P-12 FUNNEL DRAIN (3"): J.R. SMITH 3516L03 FUNNEL-CEPTOR 3" INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" SQUARE F12 STRAINER WITH 4" ROUND FUNNEL AT ICE MACHINE & WALK-IN COOLER. PROVIDE 8" ROUND F22 STRAINER WITH 3.25"X 8.25" OBLONG FUNNEL AT MECHANICAL ROOM.

P-13A NOT USED (4)

P-13B FLOOR SINK (VEGETABLE SINK): J.R. SMITH 3411L04-10 SANI-CEPTOR CAST IRON INDIRECT WASTE RECEIVER WITH 8" SQ. BODY, SEDIMENT BUCKET AND NO STRAINER.

P-14 CLEANOUTS INSIDE BUILDING: J.R. SMITH 4053L CLEANOUT WITH 6-1/2" SQUARE NICKEL BRONZE TOP AND TAPER THREAD BRONZE PLUG. SEE PLAN FOR SIZE.

P-15 CLEANOUTS OUTSIDE BUILDING: J.R. SMITH 4261L SERIES EXTRA HEAVY DUTY CAST-IRON CLEANOUT, "C.O." CAST IN COVER. ABS PLUG, SPEEDI SET OUTLET

P-16 TRAP PRIMER: SLOAN ROYAL MODEL V8F-72-A1 WITH VACUUM BREAKER.

P-17 VACUUM RELIEF VALVE: WATTS MODEL #N36, 3/4" CONNECTION.

P-18 EXPANSION TANK: STATE INDUSTRIES MODEL ETC-5X, ACCEPTANCE 3.05 GALLONS AT 40 PSI PRECHARGE, 3/4" CONNECTION.

P-19 WATER HEATER: STATE INDUSTRIES MODEL PR6-75-X2VIT, 75 GALLON GAS FIRED WATER HEATER, 75,000 BTUH INPUT, 76 GPH MINIMUM RECOVERY AT 100 DEGREE RISE, 3" PVC OR ABS VENT OUTLET, WITH MANUFACTURER PROVIDED HEAT TRAPS AND ONE YEAR WARRANTY. BRADFORD WHITE M-II-TW-75T6BN AND RHEEM GPV75-75E-1 MODELS ARE ACCEPTABLE SUBSTITUTES.

P-20 TEMPERING VALVE: SYMMONS MODEL 5-120-CKX BRASS BODY, THERMOSTATIC TYPE. 15 GPM @ 45 PSI DIFFERENTIAL, 4 GPM @ 5 PSI DIFFERENTIAL, 1/2" IPS INLETS AND OUTLETS WITH CHECKSTOPS. SET TEMPERATURE AT 100F DEG. PROVIDE TREBICE MODEL B83404 3" DIAL TYPE THERMOMETER WITH BOTTOM 1/2" N.P.T. CONNECTION, 4" STEM AND 25F TO 125 F RANGE.

P-21 NOT USED.

P-22 1-1/4" PRESSURE REDUCING VALVE: WATTS NO. #223-SB WITH BRONZE STRAINER AND BYPASS FEATURE. SET NO FLOW CONDITION AT 70 PSI.

P-23 UTILITY CONNECTION (ICE MAKER): PROVIDE A BRASSCRAFT MODEL OR87C CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-26 AND OWNER PROVIDED ICEPRO WATER TREATMENT DEVICE.

P-23A UTILITY CONNECTION (CARBONATORS): PROVIDE A MCGUIRE 1/2" IPS X 3/8" OD MODEL ST02 CHROME WHEEL ANGLE STOP. PROVIDE CHROME WALL ESCUTCHEON. PIPING FROM STOP TO CARBONATORS SHALL BE PROVIDED AND INSTALLED BY SOFT DRINK VENDOR.

P-24 UTILITY CONNECTION (COFFEE & TEA BREWERS): PROVIDE A BRASSCRAFT MODEL OR87C CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34.

P-25 SHOCK ABSORBER: J.R. SMITH FIGURE 5005 THROUGH 5050, SIZE AS RECOMMENDED BY MANUFACTURER.

P-26 ICE MACHINE BACKFLOW PREVENTER: WATTS MODEL #7 WITH 1/2" FIP INLET AND OUTLET, ASSE 1024 RATED, DUAL CHECK TYPE. PROVIDE 1/2" DIA X 2' LONG BRASS NIPPLE BETWEEN STOP AND BFP INLET. PROVIDE TWO 1/2" DIA X 1-1/2" LONG BRASS NIPPLES WITH ELBOW AND UNION BETWEEN BFP AND ICEPRO DEVICE. PROVIDE 6'-0" OF COPPER COILED TUBING AT OUTLET OF ICEPRO DEVICE TO ALLOW EQUIPMENT TO BE PULLED OUT FOR MAINTENANCE AND CLEANING. SEE DETAIL 4/P5.1

P-27 WATER PRESSURE GAUGE: TRERICE MODEL 800B, 2-1/2" ROUND, BOTTOM OUTLET WITH 1/4" N.P.T. CONNECTION AND 0 TO 100 PSI RANGE.

P-28 BALL VALVE: NIBCO MODEL 4650-T, 3/4", WITH IPS INLET AND OUTLET.

P-29 ICE MACHINE FLOOR SINK: J.R. SMITH 3411L04-10 SANI-CEPTOR CAST IRON INDIRECT WASTE RECEIVER WITH 8" SQ. BODY, SEDIMENT BUCKET AND NO STRAINER.

P-30 FILTERED WATER FAUCET: (FAUCET PROVIDED BY OWNER) PROVIDE MCGUIRE 177 SUPPLY WITH STOP AND 36" RISER. ASSEMBLE AND MOUNT SINGLE INLET, DOUBLE JOINTED SPOUT FAUCET ON LEFT SIDE OF BACKSPLASH OF VEGETABLE PREP SINK.

P-31 DUMPSTER POST HYDRANT (NON-FREEZE): WOODFORD MODEL Y2 LEVER TYPE POST HYDRANT, 3/4 HOSE CONNECTION, LOCKABLE LEVER HANDLE, BRASS CASING, BRASS OPERATING ROD, ASSE 1052 APPROVED AND 48" DEPTH OF BURY.

P-32 DUMPSTER PAD DRAIN: J.R. SMITH FIGURE NO. 2280CO3 3" FLOOR DRAIN WITH 7-1/2" HINGED CAST IRON SLOTTED GRATE AND SEDIMENT BUCKET.

P-33 TRAP PRIMER (MECHANICAL TYPE): PRECISION PRODUCTS PR-500 WITH DISTRIBUTION UNIT WHERE SERVING MULTIPLE DRAINS.

P-34 DISPENSER BACKFLOW PREVENTER: WATTS MODEL #7 WITH 1/2" FIP INLET AND OUTLET, DUAL CHECK TYPE. PROVIDE 1/2" DIA X 2" LONG BRASS NIPPLE BETWEEN STOP AND BFP INLET. ASSE 1024 RATED.

P-35 FLOOR DRAIN (3"): JONES STEPHENS CORP D50-064 PVC BODY, BRONZE SPUD WITH 6" DIAMETER NICKEL BRONZE STRAINER. SEE DWG P1.1 FOR DRAINS IN RESTROOMS REQUIRING 1/2" TRAP PRIMER CONNECTION.

P-36 BEVERAGE TOWER INDIRECT RECEIVER (3"): JONES STEPHENS CORP D53-144 PVC BODY, BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER.

P-37 FLOOR DRAIN (3"): JONES STEPHENS CORP D50-076 PVC BODY, BRONZE SPUD WITH 6" SQUARE NICKEL BRONZE STRAINER. PROVIDE 1/2" TRAP PRIMER CONNECTION FOR DINING ROOM DRAINS.

P-38 3/4" MIXING WALL HYDRANT (NON-FREEZE): WOODFORD MODEL HO67 MIXING WALL HYDRANT, 3/4 HOSE CONNECTION, WALL CLAMP, ASSE 1052 APPROVED, CHROME ACCESS DOOR. SPECIFY 10" WOODFORD WALL THICKNESS.

P-39 BOOSTER PUMP: GOULDS AQUABOOST II MODEL 2AB22-MIFIZEO PACKAGE PUMP, 208V/1PH CIRCUIT REQUIREMENT, 1.5 HP MOTOR, 35 GPM DEMAND AT 48 PSI BOOST. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SOUTHEAST PUMP & EQUIPMENT, INC. CONTACT BRYAN GLOVER FOR ORDERING AND TECH SUPPORT: SAVANNAH OFFICE: 912-495-9527, CELL: 770-294-2771, 6PM TO 7AM: 912-897-8544. ADDITIONAL CONTACT: ATLANTA OFFICE: 678-990-1368 TRAVIS GLOVER, JR. PUMP NOT PURCHASED THRU SOUTH-EAST PUMP AND EQUIPMENT WILL NOT BE ACCEPTED.

P-39A BOOSTER PUMP ACCESSORIES (SEE DETAIL 3/P6.1):

- CHECK VALVES: 1-1/2" NIBCO T-480 BRONZE RING CHECK VALVE.
- STRAINER: 1-1/2" WATTS 777, THREADED CONNECTION.
- RELIEF VALVE: WATTS ½" NO. 530C BRONZE ADJUSTABLE WATER RELIEF VALVE. SET FOR 90 PSI.
- UNIONS: WATTS 3000 SERIES BRONZE UNION. FULL SIZE OF PIPE, SEE PLAN FOR PIPE SIZES.
- BALL VALVES: NIBCO T-585-70 FULL PORT, TWO PIECE BRONZE BALL VALVE FULL SIZE OF PIPE, SEE PLAN FOR PIPE SIZES.
- AIR VENT: BELL AND GOSSETT NO. 87 AUTOMATIC AIR VENT WITH ¾" MIP INLET AND ⅜" DISCHARGE. 150 PSI MAX OPERATING PRESSURE. WITH STAINLESS STEEL, BRASS AND EPDM INTERNAL COMPONENTS. PROVIDE B&G NO. 113-023 OVERFLOW CONNECTOR AT DISCHARGE.

FOR CONSTRUCTION
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FOR CONSTRUCTION

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Atlanta Georgia,
30349-2998

Revisions:

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4	01/23/07	BUILDING DEPT COMMENTS.

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SHEET TITLE
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REVISION –

Job No. : 6051
Store : 1976
Date : 5/26/06
Drawn By : RWW
Checked By: RDB

Sheet
P-7.1

ELECTRICAL SITE PLAN SYMBOLS

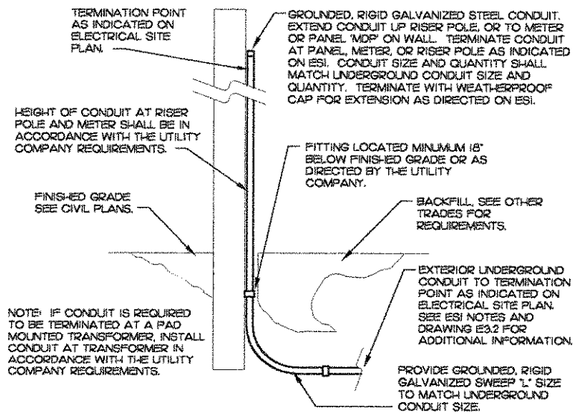
SYMBOL	DESCRIPTION (UNLESS OTHERWISE NOTED ON PLANS)
T	UTILITY COMPANY TRANSFORMER. (208 VOLT, 3 PHASE, 4 WIRE SECONDARY)
$	S.P.S.T. LIGHT SWITCH (600V AC QUIET TYPE)
GF	DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTER
	CONDUIT HOMERUN TO PANEL
J	JUNCTION BOX (SINGLE GANG STEEL WHERE WALL MOUNTED, 4" SQ. STEEL WHERE CEILING MOUNTED, UNLESS NOTED OTHERWISE)
	CONDUIT BURIED BELOW GRADE
	POLE MOUNTED SITE LIGHTING FIXTURE. CHEVRON INDICATES DIRECTION OF PRIMARY LIGHT DISTRIBUTION. ROTATE REFLECTOR AS NECESSARY.

POWER/TELEPHONE UTILITIES:

COORDINATE AND COMPLY WITH ALL TELEPHONE AND ELECTRICAL UTILITY REQUIREMENTS. THE FOLLOWING PERSONS SHALL BE CONTACTED FOR SPECIFIC UTILITY COMPANY REQUIREMENTS:

ELECTRICAL UTILITY: MR. DAVE MUNTEAN
AMEREN UE
280 OLD STATE RD
ELLISVILLE, MO 63021
(314) 992-8903

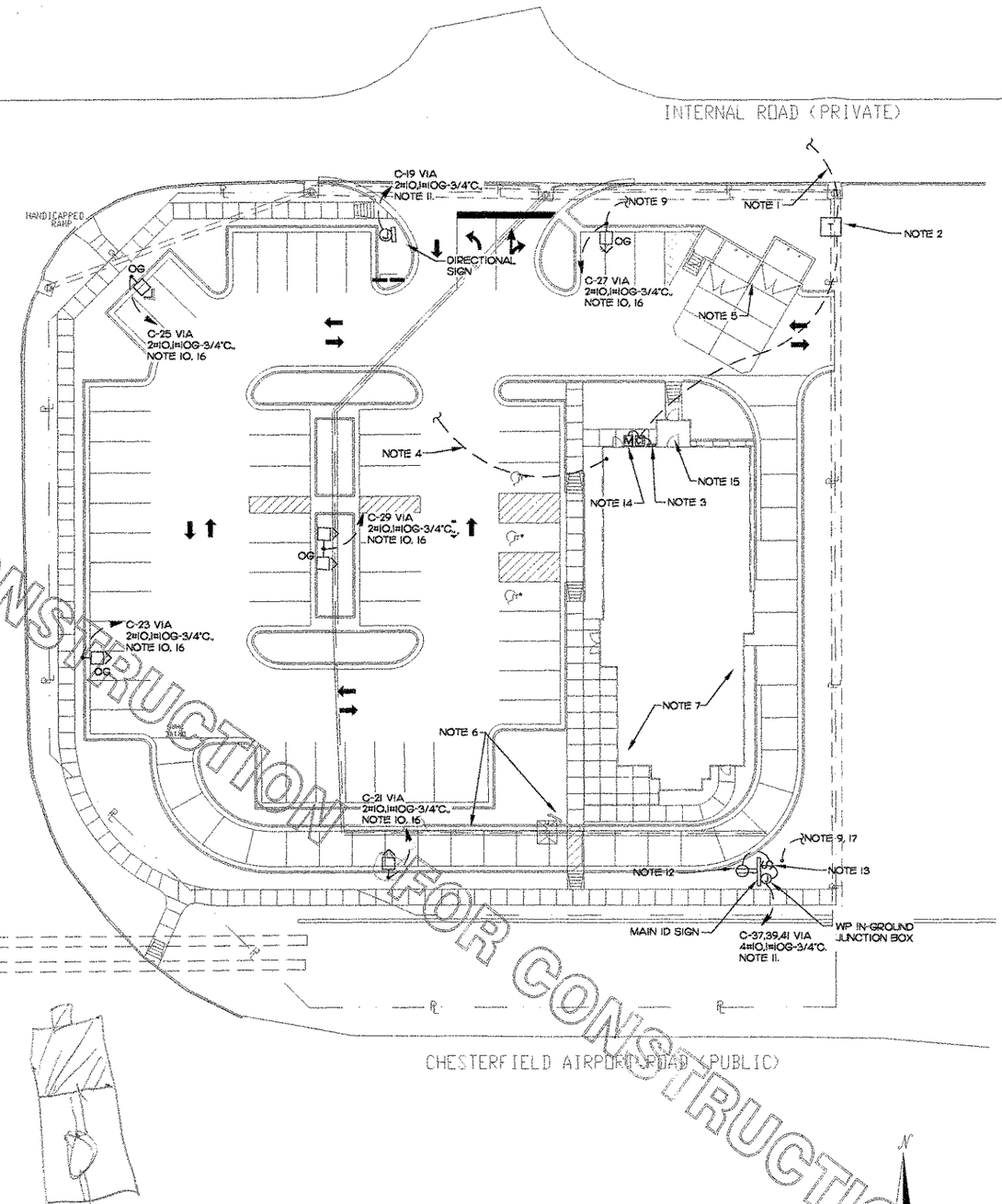
TELEPHONE UTILITY : MR. TERRY DONAUBAUER
ATT
14780 MANCHESTER RD.
BALLWIN, MO 63011
(696) 256-1596



2 EXTERIOR CONDUIT TURN UP DETAIL

NO SCALE

NOTE:
REFER TO NOTES 10, 16, SHEET ES2.1 FOR TYPE 'OG' LIGHT FIXTURE INFORMATION.



1 ELECTRICAL SITE PLAN

SCALE: 1"=20'-0"

0 10 20 30 40

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5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

Seal

8/18/06

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STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
Electrical Site Plan

DWG EDITION 05.9
REVISION –

Job No. : CF06017
Store : 1976
Date : 08/18/06
Drawn By : EAS
Checked By: MTK

Sheet
ESI.1

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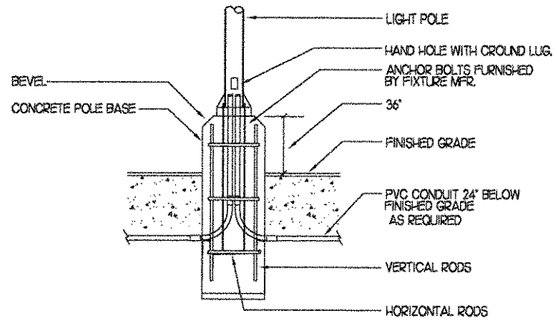
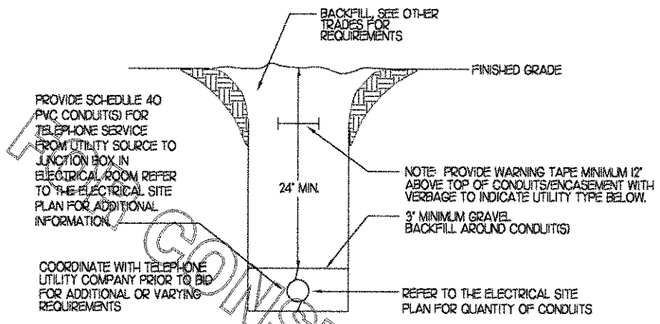


REFER TO STRUCTURAL DRAWINGS FOR EXACT POLE BASE DIMENSIONS

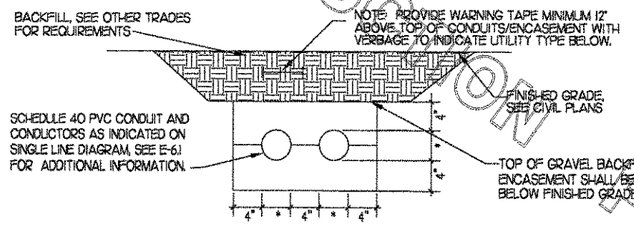
1 TYPICAL POLE BASE DETAIL

NOT TO SCALE



2 TELEPHONE SERVICE CONDUIT DETAIL

NOT TO SCALE



NOTE:
WHERE THE SECONDARY CONDUITS FROM THE UTILITY TRANSFORMER TO THE CURRENT TRANSFORMER CABINET (OR MAIN PANELBOARD) ARE FURNISHED BY THE UTILITY COMPANY (FOR INSTALLATION BY THE CONTRACTOR) OR ARE FURNISHED AND INSTALLED BY THE UTILITY COMPANY, THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY PRIOR TO BID. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.

3 ELECTRICAL SERVICE LATERAL CONDUIT DETAIL

NOT TO SCALE

5 ELECTRICAL SITE PLAN KEYNOTES

(APPLIES TO THE ELECTRICAL SITE PLAN ONLY)

1. APPROXIMATE LOCATION OF EXISTING PRIMARY UNDERGROUND ELECTRICAL UTILITY LINES.
2. APPROXIMATE LOCATION OF PAD MOUNTED TRANSFORMER FURNISHED BY THE ELECTRICAL UTILITY COMPANY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE:
   - A. SECONDARY SERVICE LATERAL FROM UTILITY TRANSFORMER TO PANEL 'MDP' VIA THE CURRENT TRANSFORMER CABINET. SEE SHEET E3.2, 'SINGLE-LINE DIAGRAM'. REFER TO 'ELECTRICAL SERVICE LATERAL CONDUIT DETAIL', THIS SHEET FOR ADDITIONAL INFORMATION.
   - B. INSTALLATION OF CONCRETE PAD FOR UTILITY TRANSFORMER IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
   - C. METERING CONDUIT. SEE NOTE-14.
3. APPROXIMATE LOCATION OF TERMINATION OF SECONDARY SERVICE LATERAL AT PANEL 'MDP'. REFER TO 'SINGLE-LINE DIAGRAM', SHEET E3.2, FOR ADDITIONAL INFORMATION.
4. PROVIDE ONE 4" SCH. 40 PVC CONDUIT, MINIMUM 24" BELOW FINISHED GRADE, FOR TELEPHONE SERVICE FROM TELEPHONE UTILITY SOURCE TO JUNCTION BOX IN MECHANICAL CLOSET. REFER TO SHEET E2.2 FOR LOCATION OF JUNCTION BOX AT BRANCH PANELBOARDS. REFER TO 'TELEPHONE SERVICE CONDUIT DETAIL', THIS SHEET, FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF UTILITY SOURCE WITH TELEPHONE UTILITY. TERMINATE CONDUITS AT UTILITY SOURCE AS REQUIRED BY THE UTILITY COMPANY.
5. LOCATION OF DUMPSTER. REFER TO 'REFUSE ENCLOSURE PLAN - ELECTRICAL', SHEET E2.3 FOR ELECTRICAL REQUIREMENTS IN THIS AREA.
6. REFER TO SHEETS E2.1 AND E2.2 FOR ELECTRICAL REQUIREMENTS AT MENU BOARD, DRIVE-THROUGH CANOPY, AND PRESELL MENU BOARD.
7. REFER TO SHEETS E4.1, & E4.2 FOR ELECTRICAL SPECIFICATIONS PERTAINING TO ELECTRICAL WORK DESCRIBED ON THIS SHEET.
8. REFER TO SHEET E1.1 FOR LIGHTING FIXTURE SCHEDULE.
9. PROVIDE UNDERGROUND CONDUIT TO JUNCTION BOX IN OFFICE FOR POLE MOUNTED SECURITY CAMERA. REFER TO SHEET E2.2 FOR LOCATION OF JUNCTION BOX IN OFFICE AND REQUIRED SIZE OF CONDUIT. COORDINATE EXACT CAMERA LOCATION WITH CHICK-FIL-A SECURITY SYSTEM REPRESENTATIVE PRIOR TO ROUGH-IN.
10. CONNECT SITE LIGHTING CIRCUITS TO TERMINAL BLOCKS LOCATED IN THE 'CFA-T500' CONTROL PANEL (TYPICAL). SEE PANEL SCHEDULES ON SHEET E3.1.
11. CONNECT SITE SIGNAGE CIRCUITS TO TERMINAL BLOCKS LOCATED IN THE 'CFA-T500' CONTROL PANEL (TYPICAL). SEE PANEL SCHEDULES ON SHEET E3.1. COORDINATE LOCATIONS OF ALL SIGNS WITH CHICK-FIL-A REPRESENTATIVE PRIOR TO BID AND PRIOR TO CONDUIT INSTALLATION.
12. PROVIDE GFCI TYPE WEATHERPROOF RECEPTACLE MOUNTED ON MAIN SIGN SUPPORT +14' AFG. THIS RECEPTACLE SHALL NOT BE UNSWITCHED. (BYPASS THE CONTACTOR AND SIGN'S DISCONNECT SWITCH.)
13. PROVIDE WEATHERPROOF 20A SPST TOGGLE SWITCH 18' AFG AND CONNECTION TO MAINTENANCE DISCONNECT SWITCH FOR MAIN I.D. SIGN.
14. APPROXIMATE LOCATION OF BUILDING MOUNTED ELECTRICAL UTILITY METER. METER BASE WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CURRENT TRANSFORMER CABINET SHALL BE FURNISHED AND INSTALLED ON THE BUILDING BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL A 1-1/4" RIGID GALVANIZED CONDUIT BETWEEN METER BASE AND CURRENT TRANSFORMER CABINET. COORDINATE LOCATIONS AND REQUIREMENTS WITH ELECTRIC UTILITY COMPANY PRIOR TO BID.
15. REFER TO BUILDING DRAWING E2.2 FOR LAYOUT OF THE SERVICE YARD AREA. COORDINATE LOCATIONS OF ALL ITEMS AT THE SERVICE YARD AREA PRIOR TO ROUGH-IN OF ANY ITEMS INSTALLED ON OR NEAR THE SERVICE YARD. COORDINATE EXACT LOCATIONS OF SECURITY SYSTEM EQUIPMENT WITH CHICK-FIL-A SECURITY SYSTEM REPRESENTATIVE PRIOR TO ROUGH-IN.
16. REFER TO 'LUMINAIRE SCHEDULE' SHEET E5.3.1 FOR TYPE 'OG' LUMINAIRE. THE SITE LIGHTING TYPE 'OG' POLES SHALL BE LITHONIA: RTS-30-8-08-DBL.
17. PROVIDE POLE FOR MOUNTING OF SECURITY CAMERA. POLE TYPE SHALL BE SAME AS THAT LISTED ON DRAWING E1.1 FOR TYPE 'OD' FIXTURE EXCEPT THAT THE POLE SHALL BE 15 FT TALL. COORDINATE FINAL LOCATION WITH CHRIS VERCH OF STRONG SYSTEMS INTERNATIONAL AT: (770) 729-1159 EXT. 213.

6 GENERAL ELECTRICAL SITE PLAN NOTES

(APPLIES TO THE ELECTRICAL SITE PLAN ONLY)

1. VERIFY WITH LOCAL AUTHORITIES AND UTILITIES THAT OWNER'S SIGNS, POLES, AND THEIR APPURTENANCES ARE NOT LOCATED ON OR OVER ANY EASEMENT OR MUNICIPAL RIGHT OF WAY.
2. SITE WORK, UTILITY, AND ROADWAY INFORMATION ARE TAKEN FROM BOUNDARY AND TOPO SURVEY SITE PLANS. REFER TO C-DRAWINGS.
3. MINIMUM CONDUIT SIZE SHALL BE 3/4"C. MINIMUM CONDUCTOR SIZE SHALL BE #12AWG COPPER UNLESS OTHERWISE NOTED.
4. REFER TO BUILDING ELECTRICAL DRAWINGS FOR EXTERIOR LIGHTING CONTROL.
5. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ONLY NEW AND U.L. LABELED ELECTRICAL EQUIPMENT, UNLESS INDICATED OTHERWISE BY THE CONTRACT DOCUMENTS.
6. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL CONTACT ALL UTILITIES FOR VERIFICATION AND IDENTIFICATION OF ALL UNDERGROUND RUNS, PRIOR TO SITE TRENCHING ('CALL BEFORE YOU DIG').
7. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NFPA 70), AND THE LIFE SAFETY CODE (NFPA 101), AS ADOPTED AND/ OR AMENDED BY STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
8. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL COORDINATE AND FIELD VERIFY LOCATIONS OF ALL UTILITY SERVICE RUNS, ORIGINATIONS, TERMINATIONS AND ANY INSTALLATION REQUIREMENTS (I.E. ELECTRICAL, TELEPHONE, WATER, GAS, SEWAGE, ETC.), AS RELATED TO THIS JOB, OR THEREBY EFFECTED.

CONSTRUCTION FOR CONSTRUCTION

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
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Mark	Date	By
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Seal

8/18/06

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Email: mail@kurzynske.com

STORE
Chesterfield Commons
FSU S06C--R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
SITE PLAN
DETAILS & NOTES

DWG EDITION 05.9
REVISION --

Job No. : CF06017
Store : 1976
Date : 08/18/06
Drawn By : EAS
Checked By: MTK

Sheet
ES2.1

LUMINAIRE LOCATIONS

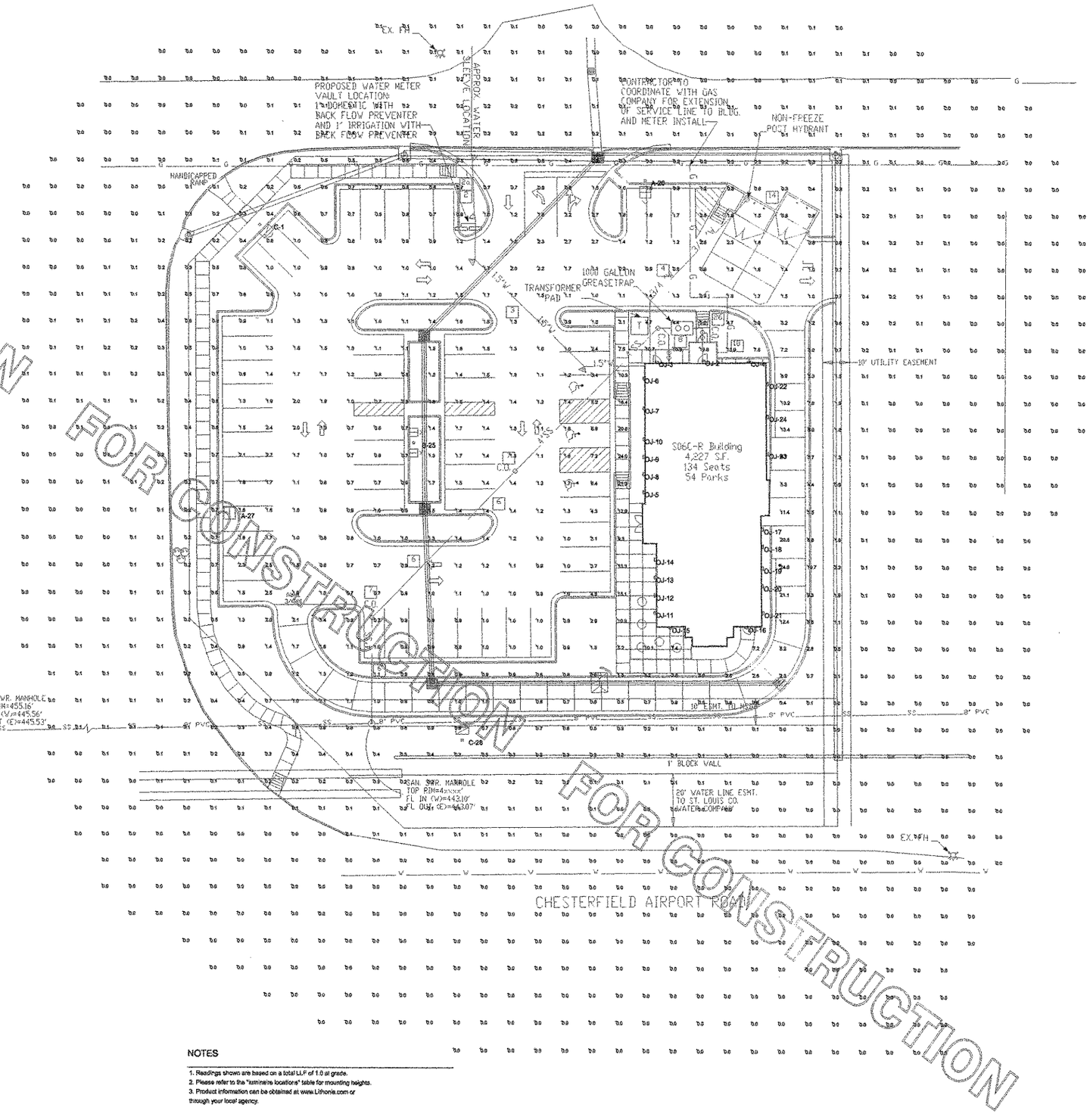
No.	Label	Location X	Location Y	Z	MH	Orientation	Tilt
1	C	24.3	231.5	33.0	33.0	133.6	0.0
2	OJ	186.4	181.1	10.5	10.5	0.0	0.0
3	OJ	171.2	180.9	16.0	16.0	0.0	0.0
4	OJ	205.2	180.8	16.0	16.0	0.0	0.0
5	OJ	186.6	132.4	16.0	16.0	-90.0	0.0
6	OJ	186.4	174.3	16.0	16.0	-90.0	0.0
7	OJ	186.6	163.0	16.0	16.0	-90.0	0.0
8	OJ	186.6	138.6	16.0	16.0	-90.0	0.0
9	OJ	186.6	145.2	16.0	16.0	-90.0	0.0
10	OJ	186.6	151.7	16.0	16.0	-90.0	0.0
11	OJ	170.9	88.6	16.0	16.0	-90.0	0.0
12	OJ	170.9	95.0	16.0	16.0	-90.0	0.0
13	OJ	170.9	101.4	16.0	16.0	-90.0	0.0
14	OJ	170.9	107.9	16.0	16.0	-90.0	0.0
15	OJ	176.5	82.9	16.0	16.0	180.0	0.0
16	OJ	204.6	83.2	16.0	16.0	180.0	0.0
17	OJ	210.5	119.2	16.0	16.0	90.0	0.0
18	OJ	210.5	112.8	16.0	16.0	90.0	0.0
19	OJ	210.5	104.9	16.0	16.0	90.0	0.0
20	OJ	210.5	98.5	16.0	16.0	90.0	0.0
21	OJ	210.7	88.7	16.0	16.0	90.0	0.0
22	OJ	212.1	172.5	16.0	16.0	90.0	0.0
23	OJ	212.1	146.8	16.0	16.0	90.0	0.0
24	OJ	212.1	160.2	16.0	16.0	90.0	0.0
25	B	81.4	150.2	33.0	33.0	0.0	0.0
26	A	186.6	248.3	33.0	33.0	179.7	0.0
27	A	9.2	124.3	33.0	33.0	90.0	0.0
28	C	99.7	40.8	33.0	33.0	0.0	0.0

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Lot Summary	+	2.7 fc	24.6 fc	0.5 fc	49.2:1	5.4:1
Spill Light Summary	+	0.8 fc	24.6 fc	0.0 fc	N/A	N/A

LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF
	A	2	KVF 250M SR3FL HS	SQUARE AREA LIGHT, SR3 DISTRIBUTION, FLAT LENS, HOUSE SIDE SHIELD.	ONE 250-WATT CLEAR BT-28 METAL HALIDE, HORIZONTAL POSITION.	lit11252.ies	20000	1.00
	B	1	KVF 250M ASYFL EHS	SQUARE AREA LIGHT, ASYMMETRIC DISTRIBUTION, FLAT LENS, HOUSE SIDE SHIELD.	ONE 400-WATT CLEAR BT-37 METAL HALIDE, VERTICAL BASE UP POSITION.	Lit9434.ies	20000	1.00
	C	2	KVF 250M ASYFL EHS	SQUARE AREA LIGHT, ASYMMETRIC DISTRIBUTION, FLAT LENS, HOUSE SIDE SHIELD.	ONE 250-WATT CLEAR BT-37 METAL HALIDE, VERTICAL BASE UP POSITION.	Lit9434.ies	20000	1.00
	OJ	23	WSR 175M MDU5	ARCHITECTURAL SCONCE WITH MEDIUM THROW DISTRIBUTION WITH 50% UPLIGHT, CLEAR FLAT GLASS BOTTOM LENS. PRISMATIC FLAT GLASS TOP LENS. COATED LAMP.	ONE 175-WATT COATED ED-17 METAL HALIDE, HORIZONTAL POSITION.	LTL11310.IES	11080	1.00



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W
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1 ELECTRICAL SITE PHOTOMETRICS

SCALE: 1"=20'-0"

NOTES

1. Readings shown are based on a total LLF of 1.0 at grade.
2. Please refer to the "luminaire locations" table for mounting heights.
3. Product information can be obtained at www.Lithonia.com or through your local agency.

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Revisions:

Mark	Date	By

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8/18/06

STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
Electrical Site Photometrics

DWG EDITION 05.9
REVISION --

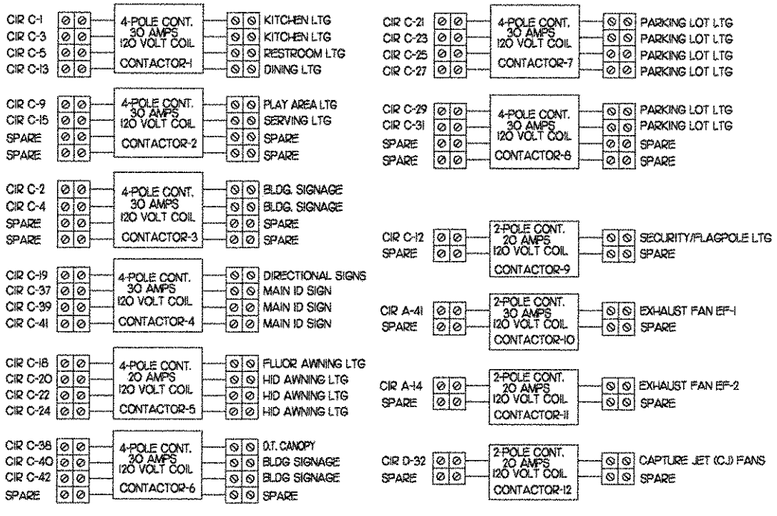
Job No. : CF06017
Store : 1976
Date : 08/18/06
Drawn By : EAS
Checked By: MTK

Sheet
ES3.1

1 LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A FSU PROTO 506 5.9 EDITION

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS
A	LITHONIA	2GTB-G-432-A12V-120-1/4GEB	4/F32 T8 SP35	114	120	RECESSED	2'X4' STATIC TROFFER. SMOOTH SIDE OF PRISMATIC LENS DOWN.
AE	LITHONIA	2GTB-G-432-A12V-120-1/4GEB-EL	4/F32 T8 SP35	114	120	RECESSED	SAME AS 'A' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING
B	LITHONIA	EFSC-132-120-GEB	1/F32 T8 SP35	39	120	SURFACE	MOUNT TO BOTTOM OF OVERHEAD WIRE SHELVING AT WORKTOP REFRIGERATOR
C	LITHONIA	LTE-RNDB-PAR20-MB-DBL	1/50W PAR20 HAL	50	120	TRACK	BLACK ROUNDBACK (MONOPOINT MOUNTED) TRACKHEAD AIMED AT ARTWORK ON WALL
D	LITHONIA	2PM3N-G-B-232-12ND-120-GEB-DGA24	2/F32 T8 SP35	62	120	RECESSED	2'X4' STATIC 12 CELL PARABOLIC TROFFER WITH DRYWALL GRID ADAPTER KIT
DE	LITHONIA	2PM3N-G-B-232-12ND-120-GEB-DGA24-EL	2/F32 T8 SP35	62	120	RECESSED	SAME AS 'D' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING
E	CON-TECH	RLM19-B-LA1534 (TRACK MTD) WITH LT12-4 OR 8' TRACK, LA9 END FEED, LA2 MINI-CONNECTORS	1/50W PAR20 HAL	50	120	TRACK CEILING	BOTTOM OF FIXTURE TO BE AT 5'-6" AFF USING BLACK FACTORY CORD AND BLACK MONOPOINT CANOPY BLACK LIGHTING TRACK IN LENGTHS AS INDICATED ON PLAN, PROVIDE AN END FEED PER RUN
FW	LITHONIA	AFVW-18TRT-SAR-MVOLT-EOL-TRW	1/F18 TBXSPX35 A 4P EOL	18	120	RECESSED	COMPACT FLUORESCENT ALZAK WALLWASH REFLECTOR, DIRECT LIGHT AT WALL
G	LITHONIA	C-232-120-TUBI-AL	2/F32 T8 SP35	62	120	SURFACE	STRIP FLUORESCENT WITH ZERO DEG BALLAST. MOUNT WITHIN AWNING ON FRAME
GE	LITHONIA	C-232-120-TUBI-AL-EM	2/F32 T8 SP35	62	120	SURFACE	SAME AS 'G' WITH REMOTE EMERGENCY BATTERY PACK ABOVE CEILING
G1	LITHONIA	C-232-120-TUBI-AL-WGCUN	2/F32 T8 SP35	62	120	WALL	STRIP FLUORESCENT WITH WIREGUARD AND ZERO DEG BALLAST MTD ABOVE DOOR FRAME
J	LITHONIA	CA-132-120-GEB	1/F32 T8 SP35	39	120	WALL	MOUNT ABOVE DOOR FRAME
JE	LITHONIA	CA-132-120-GEB-EL	1/F32 T8 SP35	39	120	WALL	SAME AS 'J' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING.
J1	LITHONIA	S-132-120-GEB	1/F32 T8 SP35	39	120	COVE	MOUNT IN MENUBOARD COVE AND PROVIDE TUBE GUARDS ON LAMPS
J2	PEERLITE	CRW7-254T5HO-WHR-4FT-120-GEB	2/F54 T5HO	121	120	WALL	4 FOOT WALL MOUNTED INDIRECT WITH PERFORATED HOUSING, WHITE FINISH, T5HO LAMPING
J2E	PEERLITE	CRW7-254T5HO-WHR-4FT-120-GEB-ISE-EL	2/F54 T5HO	121	120	WALL	SAME AS 'J2' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING.
K	NOT USED						
L	NOT USED						
M	LITHONIA	2GTB-G-232-A12V-120-GEB	2/F32 T8 SP35	62	120	RECESSED	SAME AS 'A' WITH TWO LAMPS
ME	LITHONIA	2GTB-G-232-A12V-120-GEB-EL	2/F32 T8 SP35	62	120	RECESSED	SAME AS 'M' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING.
R	LITHONIA	2PM3N-G-B-2CF40-6ND-120-GEB	2/F40 30BX SPX35	70	120	RECESSED	2'X2' STATIC 6 CELL PARABOLIC TROFFER WITH 40 WATT T5 BIAX 24" LENGTH LAMPS
RE	LITHONIA	2PM3N-G-B-2CF40-6ND-120-GEB-EL14	2/F40 30BX SPX35	70	120	RECESSED	SAME AS 'R' WITH 1400 LUMEN EM BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING.
T	CELESTIAL	1/2" RL	1/2 WATT ON 1-1/2" CTRS	168	120	COVE	FLEX TUBE LIGHTING SYSTEM WITH POWER CONNECTOR, CLIPS, LENGTH AS REQ'D IN 2 ROWS
XA	LITHONIA	LHQM-S-W-1-R-120	INTEGRAL WITH FIXTURE	4	120	WALL	EXIT SIGN WITH BATTERY PACK AND TWO INTEGRAL ADJUSTABLE LAMPHEADS
XH	LITHONIA	LHQM-S-W-1-R-120-HO ELA-NX-H0606	INTEGRAL WITH FIXTURE	4	120	WALL	HIGH OUTPUT BATTERY EXIT SIGN WITH TWO INTEGRAL LAMPHEADS AND REMOTE EXTERIOR 6V UNIT
OA	NOT USED						
OB	LITHONIA	TWA-100M-120-L/LP	1/MP100 U-UVS-PS	130	120	WALL	CENTERLINE OF FIXTURE AT 10'-6" ABV O'-0" AND CENTERED OVER DOOR. (MTD AT 8'-0" AT DUMPSTER)
OC	LITHONIA	TFR-400M-TA-TB-IS FOR 2" PIPE SUPPORT	1/MVR400U	465	120	PIPE	FLOODLIGHT MTD ON ROOF ON 2" PIPE SUPPORT (BY OTHERS) AND AIMED AT NIGHTIME AT FLAG
OD	LITHONIA	KSF2-400M-R4W-120-SP09-L/LP SSS-25-5C-DM28-BC-NACF-L/AB ANCHOR BOLT SET: ABSSS-5	1/MVR400U PER LUMINAIRE	456 EA	120	POLE	SEE ELECTRICAL SITE PLAN FOR MOUNTING ARRANGEMENTS AND QUANTITY OF POLES AND LUMINAIRES. DRILL MOUNT THE ARMS/BRACKETS FOR THE LUMINAIRES TO THE POLES. LUMINAIRES, BRACKETS, AND POLES TO HAVE DARK BRONZE FINISH.
OG	REFER TO THE ELECTRICAL SITE PLAN FOR THE SITE SPECIFIC LIGHTING FIXTURE USED IN LIEU OF TYPE OD WHEN REQUIRED.						
OJ	LITHONIA	WSR-175M-MDU5-120-DARK BRONZE	1/175 MH	210	120	WALL	UP/DOWN DECORATIVE EXTERIOR WALL SCONCE. SEE ELEVATIONS FOR MOUNTING HEIGHT
OK	HYDREL	810Q-100M-120-AWM-SAND	1/MP100 U-UVS-PS	130	120	WALL	UPLIGHT WITH CL OF BACKBOX FLUSH IN WALL AT EIGHT INCHES ABOVE FINISH FLOOR LINE OF BLDG.
OL	LUMIERE	450-MH70T6-120-WM-BK-SA30	1/70W-T6-G12	70	120	WALL	WALL-MOUNTED FLOOD WITH 30" STRAIGHT MOUNTING ARMS. LAMP NOT INCLUDED.

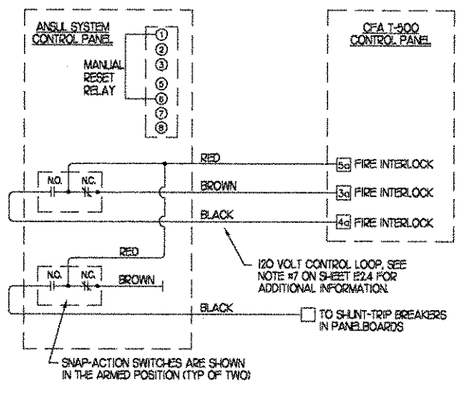
NOTES:
THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM WITH LIGHTING ASSOCIATES AT 1-888-409-6647 (FAX: 1-770-263-0189).



NOTE: VERIFY WITH SUNCOAST ENVIRONMENTAL CONTROLS' SHOP DRAWINGS

2 CFA T-500 CONTROL PANEL CONNECTION DIAGRAM

NOT TO SCALE



3 ANSUL SYSTEM PANEL WIRING DIAGRAM

NOT TO SCALE

4 ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MTG HT AFF TO CL
	LIGHTING FIXTURES	
	SURFACE MTD FLUORESCENT LIGHTING FIXTURE	
	RECESSED FLUORESCENT LIGHTING FIXTURE	
	SURFACE MTD. INCANDESCENT, FLUORESCENT, OR HID LIGHTING FIXTURE	
	RECESSED INCANDESCENT, FLUORESCENT, OR HID LIGHTING FIXTURE	
	WALL MOUNTED LIGHTING FIXTURE, SEE LIGHTING FIXTURE SCHEDULE (INCANDESCENT, FLUORESCENT, OR H.I.D. FIXTURE)	AS NOTED
	WALL MOUNTED EXIT SIGN, SHADING INDICATES FACES, PROVIDE WITH CHEVRON DIRECTIONAL ARROWS WHERE INDICATED ON PLANS PROVIDED WITH BATTERY PACK	6" BELOW CEILING TO TOP
	CEILING MOUNTED EXIT SIGN, SHADING INDICATES FACES, PROVIDE WITH CHEVRON DIRECTIONAL ARROWS WHERE INDICATED ON PLANS PROVIDED WITH BATTERY PACK	
	COMBO EXIT WITH TWO LAMPHEADS, SEE LIGHTING FIXTURE SCHEDULE	
	WALL MOUNTED EMERGENCY BATTERY PACK LIGHTING FIXTURE	AS NOTED
	CEILING MOUNTED EMERGENCY BATTERY PACK LIGHTING FIXTURE	
	FLUORESCENT STRIP LIGHTING FIXTURE	
	WALLWASHER STYLE RECESSED DOWNLIGHT, AIM LIGHT TOWARD WALL	
	RECESSED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK	
	PENDANT LIGHTING FIXTURE	AS NOTED
	LIGHTING TRACK WITH TRACK HEADS	
	WIRING DEVICES	
	120 VOLT DUPLEX RECEPTACLE, 20 AMPS U.O.N.	18"
	120 VOLT DUPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS U.O.N.	44" U.O.N
	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS U.O.N.	18" U.O.N
	120 VOLT QUADRAPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS U.O.N.	44"
	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS U.O.N.	18" U.O.N
	SINGLE SPECIAL PURPOSE RECEPTACLE WITH VOLTS, AMPS, AND PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT	18" U.O.N
	RECEPTACLE MOUNTED ON CORD DROP, 120 VOLT, 20 AMP, U.O.N. OUTLET BOX FLUSH WITH CEILING	
S	SINGLE POLE TOGGLE SWITCH	48"
S_2	DOUBLE POLE TOGGLE SWITCH	48"
S_3	THREE WAY TOGGLE SWITCH	48"
S_M	MANUAL MOTOR STARTER SWITCH (WP=NEMA 3R)	48"
S_P	SWITCH WITH PILOT LIGHT (ON WHEN SWITCH IS ON)	48"
S_K	KEY OPERATED SWITCH	48"

NOTE: RECEPTACLES ON A DEDICATED CIRCUIT (THAT IS, NO OTHER LOAD CONNECTED TO THE BRANCH CIRCUIT) SHALL HAVE AMPACITY RATING NOT LESS THAN THE AMPERAGE OF THE CIRCUIT BREAKER SERVING THE DEVICE.

	CONDUIT/RACEWAYS	
	CONDUIT CONCEALED ABOVE CEILING OR IN WALL	
	CIRCUIT HOMERUN TO PANELBOARD WITH MINIMUM 2#12, 1#12G, 3/4"C	
	CONDUIT TURNING UP	
	CONDUIT TURNING DOWN	
	CONDUIT CONCEALED IN OR BELOW SLAB (OUTSIDE = UNDERGROUND)	
	FLEXIBLE LIGHT FIXTURE WHIP, SIX FOOT MAXIMUM LENGTH	
MC	METAL CLAD CABLE ASSEMBLY - ONLY WHERE INDICATED ON DWGS OR SPECS	

NOTES: FOR ALL CONDUITS: REFER TO PLANS FOR OTHER CONDUITS, REFER TO VENDOR DRAWINGS FOR CONDUIT AND WIRING REQUIREMENTS FOR LOW VOLTAGE SYSTEMS AND CONTROL WIRING.

MULTIPLE 1Ø CIRCUITS MAY OCCUPY THE SAME CONDUIT IN ACCORDANCE WITH THE NEC, MAXIMUM OF THREE AND OF DIFFERENT PHASES.

LOW VOLTAGE AND CONTROL WIRING SHALL BE IN SEPARATE CONDUIT FROM POWER WIRING.

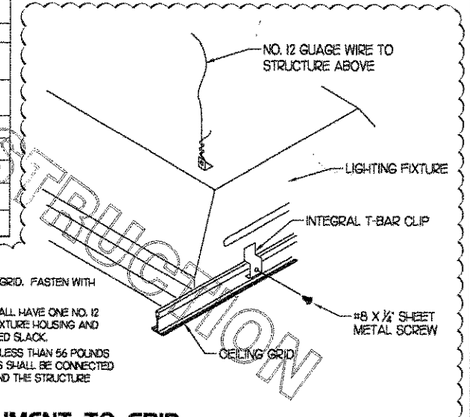
	DISTRIBUTION EQUIPMENT	
	NON-FUSIBLE SAFETY SWITCH, SIZE AND TYPE AS NOTED ON PLANS (AMP/POLES/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R ENCLOSURE.	6'-6" *
	FUSIBLE SAFETY SWITCH, SIZE AND TYPE AS NOTED ON PLANS (AMP/POLES/FUSE AMPS/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R.	6'-6" *
	FLUSH MOUNTED LIGHTING PANELBOARD	6'-6" *
	SURFACE MOUNTED LIGHTING PANELBOARD	6'-6" *
T	TRANSFORMER, PROVIDE SECONDARY GROUNDING PER NEC	
ECB	ENCLOSED CIRCUIT BREAKER, SIZE AND TYPE AS NOTED (AMPS/POLES/ENCLOSURE) NEMA 1 ENCLOSURE IF NOT NOTED, WP=NEMA 3R	6'-6" *

* 6'-6" DISTANCE IS TO TOP-MOST DISCONNECTING DEVICE OR HIGHEST POSITION OF OPERATING HANDLE OF DISCONNECTING DEVICE

SYMBOL	DESCRIPTION	MTG HT AFF TO CL
	MISCELLANEOUS SYMBOLS	
	GROUND	
M	MOTOR	
EF	EXHAUST FAN MOTOR	
J	JUNCTION BOX	
1	CONDUIT AND WIRE 'MARK' NUMBER, REFER TO CONDUCTORS AND CONDUIT SCHEDULE FOR SIZE	
101	KITCHEN EQUIPMENT 'MARK' NUMBER, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR REQUIREMENTS	
1	NOTE NUMBER	
A	HOOD EXTINGUISHING ANSUL PULL STATION	
D	SMOKE DETECTORS REMOTE STATUS INDICATOR W/ 1/2" CONDUIT STUB-UP	
	PUSH-BUTTON	
B	BELL, TYPE AS NOTED ON PLANS	
PE	PHOTO-ELECTRIC CELL	
	ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
AHU	AIR HANDLING UNIT	
C	CONDUIT	
CL	CENTER-LINE	
EF	EXHAUST FAN	
FLA	FULL LOAD AMPS	
GF/GFI	GROUND FAULT CIRCUIT INTERRUPTER	
GND/GRD	GROUND	
HT	HEIGHT	
IG	ISOLATED GRD, PROVIDE ORANGE DEVICE WHEN ADJACENT TO WIRING DEVICE	
MOCP	MAXIMUM OVER-CURRENT PROTECTION	
MUA	MAKE UP AIR UNIT	
NEC	LOCALLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70)	
NL	NIGHT LIGHT (ON 24 HOURS)	
OC	ON CENTER	
POS	POINT OF SALE EQUIPMENT	
RTU	ROOF TOP UNIT	
TL	TWIST-LOCK TYPE DEVICE	
TR	TAMPER-RESISTANT	
UON	UNLESS OTHERWISE NOTED	
WP	WEATH-ERPROOF (NEMA 3R)	
	TELEPHONE	
T	TELEPHONE OUTLET	18" UON
T	TELEPHONE OUTLET AT SPECIAL MOUNTING HEIGHT	60" UON

NOTE: EACH TELEPHONE OUTLET (FLOOR OR WALL MOUNTED) SHALL BE PROVIDED WITH A 3/4" EMPTY CONDUIT, WITH PULL WIRE, TO ACCESSIBLE CEILING SPACE.

	CCTV / SECURITY SYSTEM
C	CLOSED CIRCUIT TELEVISION CAMERA
SK	SECURITY ALARM KEYPAD
HL	SECURITY ALARM HOLD-UP BUTTON
S1	SECURITY SYSTEM KEY NOTE



ATTACHMENT NOTES:
1. ATTACH INTEGRAL T-BAR SAFETY CLIPS TO CEILING GRID. FASTEN WITH A ½" SHEET METAL SCREW.
2. LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE ONE NO. 12 GUAGE WIRE CONNECTED TO THE CENTER OF THE FIXTURE HOUSING AND THE STRUCTURE ABOVE. THIS WIRE MAY BE INSTALLED SLACK.
3. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE BUT LESS THAN 56 POUNDS SHALL HAVE TWO NO. 12 GUAGE WIRES. THESE WIRES SHALL BE CONNECTED TO OPPOSITE CORNERS OF THE FIXTURE HOUSING AND THE STRUCTURE ABOVE. THESE WIRES MAY BE INSTALLED SLACK.

5 LIGHT FIXTURE ATTACHMENT TO GRID

NOT TO SCALE

INSTRUCTIONS FOR CONSTRUCTION
NOT FOR CONSTRUCTION

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
1	08/17/06	

FIRE DISTRICT COMMENTS

Mark	Date	By
2	12/06/06	

DEVELOPER COMMENTS

Mark	Date	By
3	03/13/07	

HEALTH / ELECT. COMMENTS

Seal

3/13/07

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STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
SCHEDULES AND DETAILS

DWG EDITION 05.9
REVISION –

Job No. : CF06017
Store : 1976
Date : 05/26/06
Drawn By : EAS
Checked By: MTK

Sheet
E1.1

1 KITCHEN EQUIPMENT SCHEDULE - CHICK-FIL-A SO6 5.9 EDITION

REQUIRES IG/GF WIRING	EQUIP NO.	QTY	EQUIPMENT DESCRIPTION	ELECTRICAL LOAD VOLTS	PH	WIRES	KW	AMPS	NEMA CONFIG	RECEPTACLE COOPER CAT NO.	WIRE/CONDUIT MARK NO.	ADDITIONAL REQUIREMENTS
NOTE 2	115	1	FRY HOLDING STATION	120	1	2	1.900	15.4	5-20R	1877 (SIMPLEX)	1	
NOTE 2	116	1	CART WITH HEAT LAMP	120	1	2		9.7	5-20R	1877 (SIMPLEX)	1	
NOTE 2	116A	1	COUNTER MTD HEAT LAMP	120	1	2		9.7	5-20R	1877 (SIMPLEX)	1	
	131	1	SANDWICH SLIDE	120/208	1	3	2.260	12.1	L14-20R	L1420R	3	
IG	201	6	ORDER REGISTER	120	1	2		0.7	5-20R	IG5362RN (ORANGE)	1-IG	
IG	202	3	ORDER MONITOR	120	1	2		0.5	5-20R	IG5362RN (ORANGE)	1-IG	
IG	204	5	RECEIPT PRINTER	120	1	2		0.1	5-20R	IG5362RN (ORANGE)	1-IG	
NOTE 2	205	4	DRINK TOWER	120	1	2		1.5	5-20R	CR20	1	
NOTE 2	207	4	CARBONATOR (1/3 HP)	120	1	2		7.2	5-20R	CR20	1	SPLIT-WIRED RECEPTACLE
NOTE 2	212	1	TEA BREWER	120	1	2	1.675	14.0	5-20R	1877 (SIMPLEX)	1	
	215	1	COFFEE BREWER	208	1	3	4.000	19.2	L14-30R	L1430R	9	PROVIDE CORD AND ANGLE TL PLUG
NOTE 2	219	1	SINGLE JUICE DISPENSER	115	1	2		1.7	5-20R	CR20	1	
NOTE 2	220	1	DOUBLE JUICE DISPENSER	115	1	2		4.0	5-20R	1877 (SIMPLEX)	1	
	222	1	ICE MAKER	120/208	3	4		16.8	DIRECT	-	9	WITH REMOTE 120V ROOF CONDENSER
	224	1	ICE DREAM MACHINE	120/208	3	4		17.0	15-30R	L1530R	9	WITH ANGLE PLUG ON CORDSET
NOTE 2	227	0	REFRIGERATED DISPLAY CASE	115	1	2		8.1	5-20R	1877 (SIMPLEX)	1	
NOTE 2	229	2	SINGLE UC REFRIGERATOR	120	1	2		3.3	5-20R	1877 (SIMPLEX)	1	
NOTE 2	230	1	SINGLE UC REFRIGERATOR	120	1	2		4.5	5-20R	1877 (SIMPLEX)	1	
NOTE 2	231	1	BREADING TABLE	120	1	2		12.0	5-20R	1877 (SIMPLEX)	1	
NOTE 2	232	1	DOUBLE UC REFRIGERATOR	120	1	2		5.7	5-20R	1877 (SIMPLEX)	1	
NOTE 2	236	1	REACH-IN FREEZER	120	1	2		11.5	5-20R	1877 (SIMPLEX)	1	
NOTE 2	237	1	REACH-IN REFRIGERATOR	120	1	2		8.0	5-20R	1877 (SIMPLEX)	1	
	240	1	WALK-IN FREEZER	120	1			3.3	DIRECT	-	1	
	240A	1	WI FREEZER CONDENSER	120/208	3	4		9.4	DIRECT	-	3	
	240B	1	WI FREEZER EVAP COIL	120/208	1	3		8.7	DIRECT	-	2	POWER FED FROM CONDENSER
	241	1	WALK-IN COOLER	120	1	2		2.4	DIRECT	-	1	
	241A	1	WI COOLER CONDENSER	120/208	3	4		8.8	DIRECT	-	3	
	241B	1	WI COOLER EVAP COIL	120	1	2		4.2	DIRECT	-	1	POWER FED FROM CONDENSER
NOTE 2	242	1	THAWING CABINET	120	1	2		16.0	5-20R	1877 (SIMPLEX)	1	
NOTE 2	243	1	SANDWICH TOASTER	120	1	2		6.0	5-20R	1877 (SIMPLEX)	1	
NOTE 2	246	1	BUN WARMER-TOASTER	120	1	2	1.500	13.0	5-20R	1877 (SIMPLEX)	1	
NOTE 2	247	1	DOUBLE WARMING DRAWER	120	1	2	1.000	8.7	5-20R	1877 (SIMPLEX)	1	
NOTE 2	249	1	SINGLE FOOD WARMER	120	1	2	1.650	13.8	5-20R	1877 (SIMPLEX)	1	
NOTE 5	251	1	BISCUIT HOLDING CABINET	120	1	2	2.290	19.1	L5-30R	L530R	7	PROVIDE TWIST LOCK PLUG IN FIELD
NOTE 2	252	1	HEATED HOLDING CABINET	120	1	2	0.475	4.0	5-20R	1877 (SIMPLEX)	1	
	255	2	OPEN FRYER - ELECTRIC	120/208	3	4		61.0	PIN&SLEEVE	CW4100C9W	23	NOTE 3; PROVIDE CW100P9W PLUG/CORDSET
	256	3	PRESSURE FRYER - ELECTRIC	120/208	3	4	13.500	38.0	15-50R	8450N	16	
	257	1	CHAR-GRILL	120/208	3	4	9.600	27.0	15-50R	8450N	15	PROVIDE PLUG AND CORD-SET
	263	1	RANGE/CONVECTION OVEN	120/208	3	4	16.500	43.7/47.1/46.7	15-60R	8460N	18	PROVIDE 6 FT CORD AND ANGLE PLUG
	263G	1	GRIDDLE/CONVECTION OVEN	120/208	3	4	17.300	47.1/47.1/50.0	15-60R	8460N	18	PROVIDE 6 FT CORD AND ANGLE PLUG
NOTE 5	272	1	FLOOR MIXER	115	1	2		9.8	L5-20R	CWL520R	1	PROVIDE TWIST LOCK PLUG IN FIELD
NOTE 5	273	1	FOOD CUTTER	115	1	2		16.0	L5-20R	CWL520R	1	PROVIDE TWIST LOCK PLUG IN FIELD
NOTE 2	281	13	SMALL MENU BOARD	115	1	2		0.55	5-20R	CR20	1	
	286	1	ANSUL FIRE SYSTEM	115	1	2		VERIFY	DIRECT	-	1	VERIFY ROUGH-IN REQ'MENTS W/ SUPPLIER
NOTE 2	289	1	TV/DVD MONITOR	115	1	2	0.069		5-20R	CR20	1	
NOTE 2	292	1	DRIVE-THRU VIDEO MONITOR	115	1	2	0.096	0.8	5-20R	CR20	1	
NOTE 2	294	1	REFRIGERATED WORK TABLE	115	1	2		5.7	5-20R	1877 (SIMPLEX)	1	PROVIDE TWIST LOCK PLUG IN FIELD
NOTE 5	297	1	REFRIGERATED SALAD PREP	120	1	2		16.0	L5-20R	CWL520R	1	PROVIDE TWIST LOCK PLUG IN FIELD
NOTE 2	298	1	SALAD DISPLAY REFRIGERATOR	120	1	2		8.0	5-20R	1877 (SIMPLEX)	1	
NOTE 5	300	1	REFRIGERATED WORK TABLE	120	1	2		5.7	L5-20R	CWL520R	1	PROVIDE TWIST LOCK PLUG IN FIELD
	734	4	FLY SYSTEM - DINING AREA	115	1	2		0.28	5-15R	93632 (CLOCK)	1	
NOTE 5	734K	2	FLY SYSTEM - KITCHEN AREA	115	1	2		0.65	5-15R	93632 (CLOCK)	1	

SEE RECEPT. DETAILS: WIRING DEVICE PACKAGE (INCLUDING SWITCHES) SHALL BE PURCHASED AS A PART OF A NATIONAL ACCOUNTS BUYING PROGRAM THROUGH G.E. SUPPLY. CONTACT WAYNE SANDERS AT 770-840-4178, 6540 PEACHTREE INDUSTRIAL BLVD., NORCROSS GA 30071.

NOTE 1 ALL SO CORD LENGTHS SHALL BE MEASURED FROM THE REAR OF THE EQUIPMENT TO THE END OF THE CORD.

NOTE 2 WHERE 2002/2005 NATIONAL ELECTRICAL CODE IS IN EFFECT, CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT 15 AMP AND 20 AMP RECEPTACLES IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE AS A GROUND-FAULT TYPE RECEPTACLE UNLESS OTHERWISE NOTED ON THE PLANS. GFCI WIRING DEVICE SHALL BE COOPER #GF20V RATHER THAN TYPE INDICATED ABOVE.

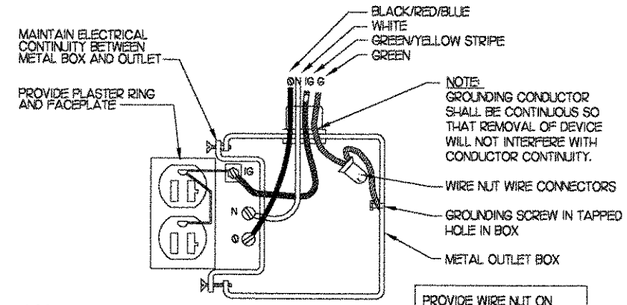
NOTE 3 PROVIDE 7 FOOT SO 2/4 CORD, INSTALL PIN & SLEEVE DEVICE IN LINE ON SO CORD AT 6 FT FROM BACK OF UNIT. EXTEND 1 FT ADDITIONAL SO CORD TO BOX AT WALL. PROVIDE 90 DEG. LIQUID TIGHT GRIP/STRAIN RELIEF AT BOTH ENDS OF CORD, USE 2 GANG BACKBOX.

NOTE 4 WIRE NUMBER INDICATED DOES NOT INCLUDE THE REQUIRED GREEN EQUIPMENT GROUND CONDUCTOR OR, WHEN APPLICABLE, THE STRIPED IG CONDUCTOR.

NOTE 5 PROVIDE GF TYPE BRANCH BREAKER FOR KITCHEN/FOOD PREPARATION AREA RECEPTACLES THAT ARE LOCKING, CLOCK, OR IG TYPE WHERE REQUIRED BY THE 2002/2005 NEC AND A GF TYPE RECEPTACLE IS NOT POSSIBLE TO REPLACE THE LOCKING, CLOCK, OR IG TYPE RECEPTACLE. (VERIFY IN 2005 NEC AREAS THAT THE SERVING AREA IS DEFINED AS A FOOD PREP AREA.)

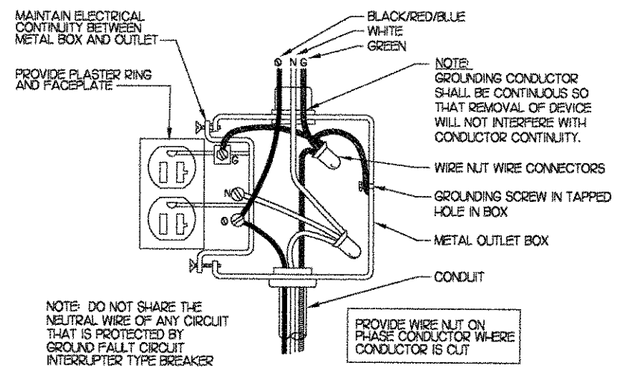
NOTE 6 REFER TO THE CONDUIT AND CONDUCTOR SCHEDULE FOR THE WIRE/CONDUIT MARK NUMBER AND THE MINIMUM WIRE AND CONDUIT SIZE FOR EACH EQUIPMENT ITEM.

NOTE: DO NOT SHARE THE NEUTRAL OR ISOLATED GROUND WIRES OF AN ISOLATED GROUND RECEPTACLE CIRCUIT WITH ANY OTHER CIRCUIT UNLESS IT IS A CIRCUIT SERVING ONLY ISOLATED GROUND RECEPTACLES.



2 I. G. RECEPTACLE GROUNDING DETAIL

NOT TO SCALE



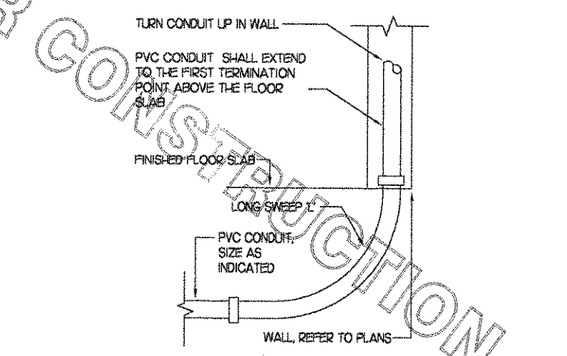
3 TYPICAL RECEPTACLE GROUNDING DETAIL

NOT TO SCALE

RECEPTACLE INSTALLATION NOTES:

PROVIDE 6" EXCESS LENGTH OF EACH CONDUCTOR AT BOX FOR FINAL CONNECTIONS. INSTALL CONDUCTORS SUCH THAT THEY ARE ACCESSIBLE FROM THE SIDE OF THE WIRING DEVICE. FACE OF TRIM RING SHALL BE FLUSH WITH FINISHED SURFACE OF WALL. FRONT OF WIRING DEVICE SHALL BE WITHIN 1/8" OF FINISHED WALL SURFACE.

RECEPTACLES ON A DEDICATED CIRCUIT (I.E. NO OTHER LOAD CONNECTED TO THE BRANCH CIRCUIT) SHALL HAVE AMPACITY RATING NOT LESS THAN THE AMPERAGE OF THE CIRCUIT BREAKER SERVING THE DEVICE.



4 INTERIOR PVC CONDUIT DETAIL

NOT TO SCALE

FOR CONSTRUCTION
FOR CONSTRUCTION
FOR CONSTRUCTION

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

Mark	Date	By

Mark	Date	By

Seal

3/13/07

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STORE
Chesterfield Commons
FSU SO6C-R

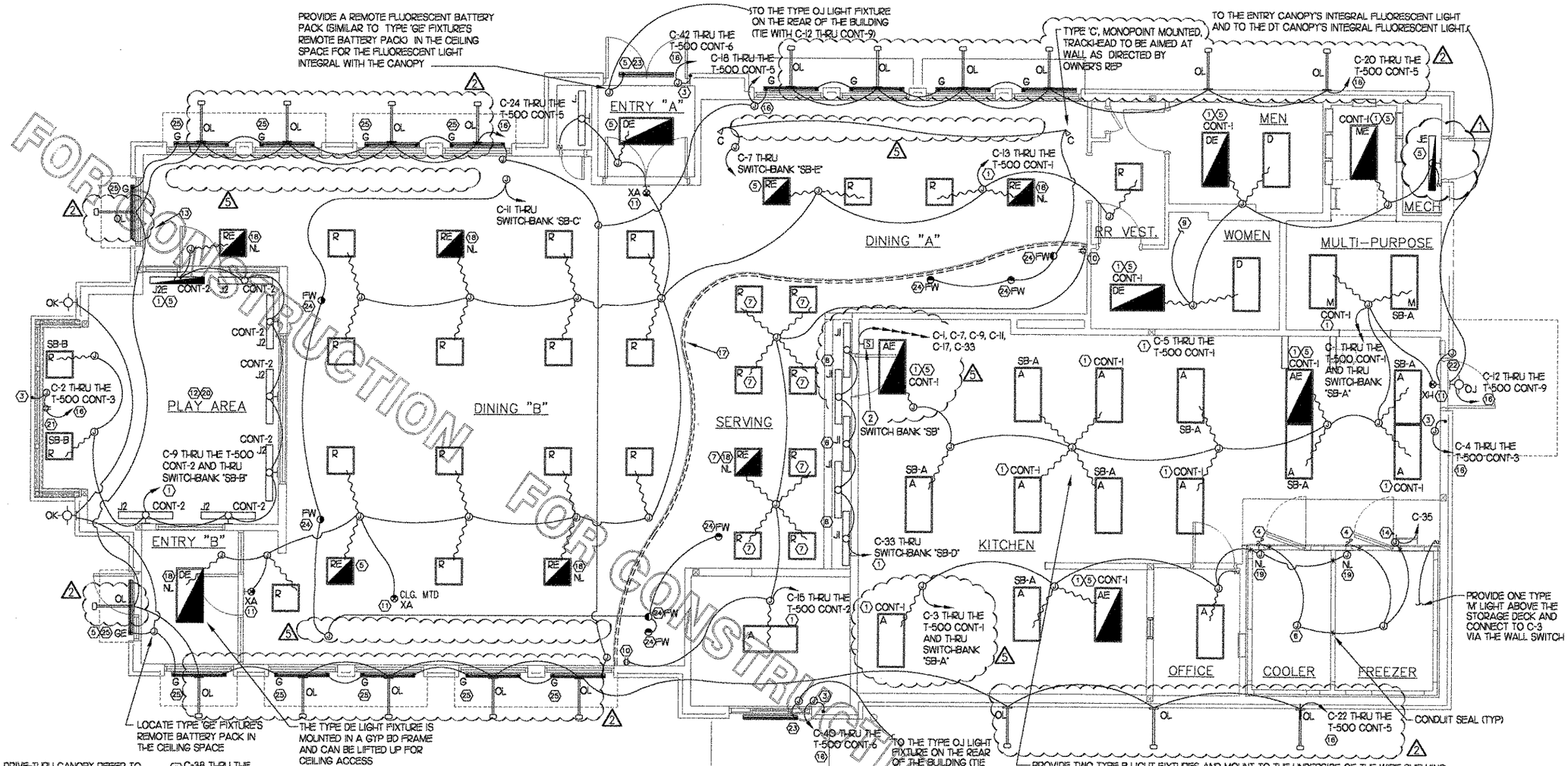
Chesterfield Commons
Chesterfield, MO

SHEET TITLE
EQUIPMENT SCH AND DETAILS

DWG EDITION 05.9
REVISION -

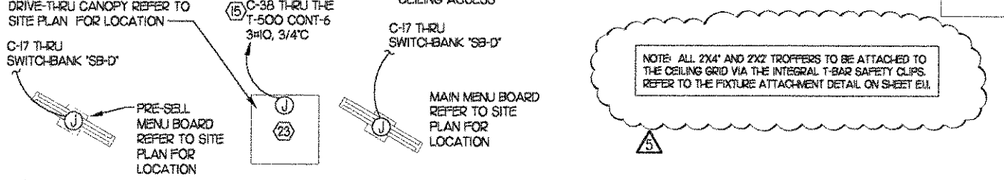
Job No. : CF06017
Store : 1976
Date : 05/26/06
Drawn By : EAS
Checked By: MTK

Sheet
E1.2



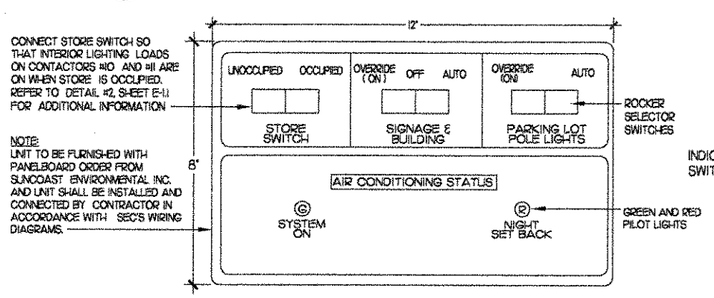
1 LIGHTING PLAN

SCALE: 1/4"=1'-0"



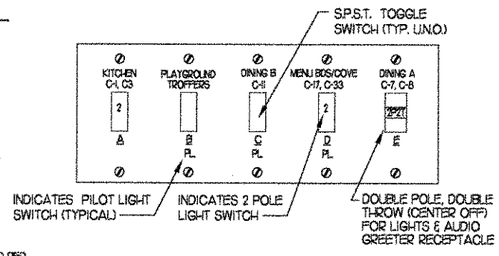
2 SITE DRIVE THRU CONNECTIONS

NO SCALE



3 STORE OPEN-CLOSE CONTROL SWITCH UNIT

NO SCALE



4 SWITCH BANK "SB" DETAIL

NO SCALE

NOTE: LOCATE JUNCTION BOXES IN CEILING SPACE ABOVE THE LOCATION OF THE SWITCH-BANK FOR SPLICING OF LINE, LOAD, AND SWITCHED CONDUCTORS. PROVIDE MINIMUM OF 5 BOXES AND LABEL ALL CONDUCTORS SO AS TO INDICATE THEIR USE (LINE, LOAD, SWITCHED, THE LOAD SERVED, AND THE CIRCUIT NUMBER.

5 KEYNOTES (APPLY TO THIS SHEET ONLY)

1. ROUTE THROUGH CONTROL PANEL 'T-500' CONTROLLED BY STORE OCCUPIED SWITCH.
2. APPROXIMATE LOCATION OF SWITCH BANK 'SB', SEE DETAIL #4 THIS SHEET FOR MORE INFORMATION.
3. FOR SIGNAGE, CONNECT AS REQUIRED. GROUND ALL LOCATIONS IN ACCORDANCE WITH N.E.C. AND MANUFACTURER'S REQUIREMENTS. SIGN IS FURNISHED WITH INTEGRAL DISCONNECTING MEANS.
4. FOR CONTROL OF LIGHTING FIXTURE IN WALK-IN COOLER/FREEZER. FURNISHED WITH EQUIPMENT, INSTALLED BY ELECTRICAL CONTRACTOR.
5. CONNECT FIXTURE SO THAT BATTERY PACK IS NOT SWITCHED WITH LIGHTS, BUT ALL LAMPS ARE SWITCHED.
6. FOR CONNECTION TO LIGHTING FIXTURES FOR WALK IN COOLER AND WALK IN FREEZER WHICH ARE FURNISHED WITH EQUIPMENT. CONTRACTOR SHALL ROUGH-IN AND CONNECT ALL FIXTURES AS REQUIRED BY THE EQUIPMENT MANUFACTURER. PROVIDE LAMPS IN FIXTURES AS REQUIRED BY EQUIPMENT MANUFACTURER.
7. PROVIDE A12 LENS, SMOOTH SIDE DOWN, ABOVE THE PARABOLIC LENS IN ALL TYPE 'R' AND 'RE' FIXTURES IN THE SERVING AREA.
8. PROVIDE TUBE GUARDS ON ALL LAMPS IN TYPE 'JI' FIXTURES.
9. UP TO TOILET EXHAUST FAN ON ROOF. SEE ROOF ELECTRICAL PLAN.
10. MOUNT RECEPTACLE ABOVE DROPPED CEILING FOR HIDDEN SOFFIT ROPE LIGHT, TYPE 'T'. SEE ARCHITECTURAL DETAIL FOR MOUNTING LOCATION OF ROPE LIGHT.
11. CONNECT FIXTURE TO CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS. THIS FIXTURE SHALL NOT BE SWITCHED.
12. INSTALL ALL JUNCTION BOXES IN THE PLAY AREA SO THEY WILL BE READILY ACCESSIBLE AFTER THE PLAYGROUND EQUIPMENT IS INSTALLED.
13. TYPE 'OC' ROOF MOUNTED FLAG POLE LIGHT, SEE THE ROOF ELECTRICAL PLAN FOR LOCATION. FIXTURE TO BE TIED WITH CIRCUIT C-12 THRU THE CFA T-500 CONTACTOR PANEL.
14. TO WALK-IN DOOR HEATER, SEE POWER FLOOR PLAN FOR CONTINUATION. POWER TO DOOR HEATER SHALL NOT BE SWITCHED.
15. ROUTE THROUGH CONTACTOR-6 (SEE CFA T-500 CONTROL PANEL CONNECTION DIAGRAM ON SHEET E1.1). PROVIDE ADDITIONAL CONDUCTORS AS REQUIRED FOR THE EMERGENCY BATTERY PACKS TO NOT BE SWITCHED, BUT REMAIN ON THE SAME BRANCH CIRCUIT.
16. ROUTE THROUGH CONTROL PANEL CFA T-500 AND CONTROLLED BY PROGRAMABLE TIMESWITCH AND PHOTOCELL.
17. FIXTURE TYPE 'T', MOUNT ABOVE LOW CEILING EDGE IN TWO ROWS.
18. CONNECT FIXTURE SO THAT LAMP BALLAST AND EMERGENCY BALLAST ARE NOT SWITCHED. 'NL' ADJACENT TO FIXTURE INDICATES THAT FIXTURE SHALL BE ON 24 HOURS.
19. FOR CONNECTION TO LIGHTING FIXTURE FURNISHED WITH FREEZER/COOLER. THIS FIXTURE SHALL NOT BE SWITCHED.
20. LOCATE THE WALL MOUNTED FLUORESCENT FIXTURES ABOVE THE GLASS, VERIFY WITH ARCHITECTURAL ELEVATIONS.
21. LOCATE RECEPTACLE FLUSH IN CEILING FOR CONNECTION TO OWNER FURNISHED INTERIOR NEON SIGN.
22. FOR REMOTE HEAD EMERGENCY LIGHTING FIXTURE. CONNECT TO BATTERY IN TYPE 'XH' FIXTURE. REFER TO SHEET E0.1 FOR LIGHTING FIXTURE SCHEDULE.
23. CANOPY LIGHTING WILL BE PROVIDED BY THE CANOPY MANUFACTURER. ELECTRICAL CONTRACTOR SHALL CONNECT BRANCH CIRCUIT AND PROVIDE ROUGH-IN FOR LIGHTING. COORDINATE LOCATIONS WITH SIGN CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE BATTERY PACK IN CEILING SPACE OF VESTIBULE FOR AWNING LIGHT. COORDINATE WITH SIGN CONTRACTOR AND PROVIDE BATTERY PACK COMPATIBLE WITH FIXTURE PROVIDED WITH SIGN PACKAGE.
24. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF WALL WASH (TYPE 'FW') LIGHT FIXTURES.
25. PRIOR TO ROUGH-IN COORDINATE MOUNTING LOCATIONS OF ALL TYPE 'G' AND 'GE' FIXTURES WITH AWNING ANGLES. MOUNT STRIP FIXTURES, JUNCTION BOXES, AND CONDUIT ON ANGLES MOUNTED ON AWNING BY SIGN CONTRACTOR. REMOVAL OF ANY SINGLE AWNING WILL NOT REQUIRE DISCONNECTING OF ELECTRICAL SOURCE FOR THE LIGHTING FIXTURES, INCLUDING BOXES AND CONDUIT.

FOR CONSTRUCTION

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Revisions:

Mark	Date	By
1	08/17/06	
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2	12/06/06	
DEVELOPER COMMENTS		
3	03/13/07	
HEALTH / ELECT. COMMENTS		

Seal

3/13/07

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Chesterfield Commons
Chesterfield, MO

SHEET TITLE
LIGHTING PLAN

DWG EDITION 05.9
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Job No. : CF06017
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Drawn By : EAS
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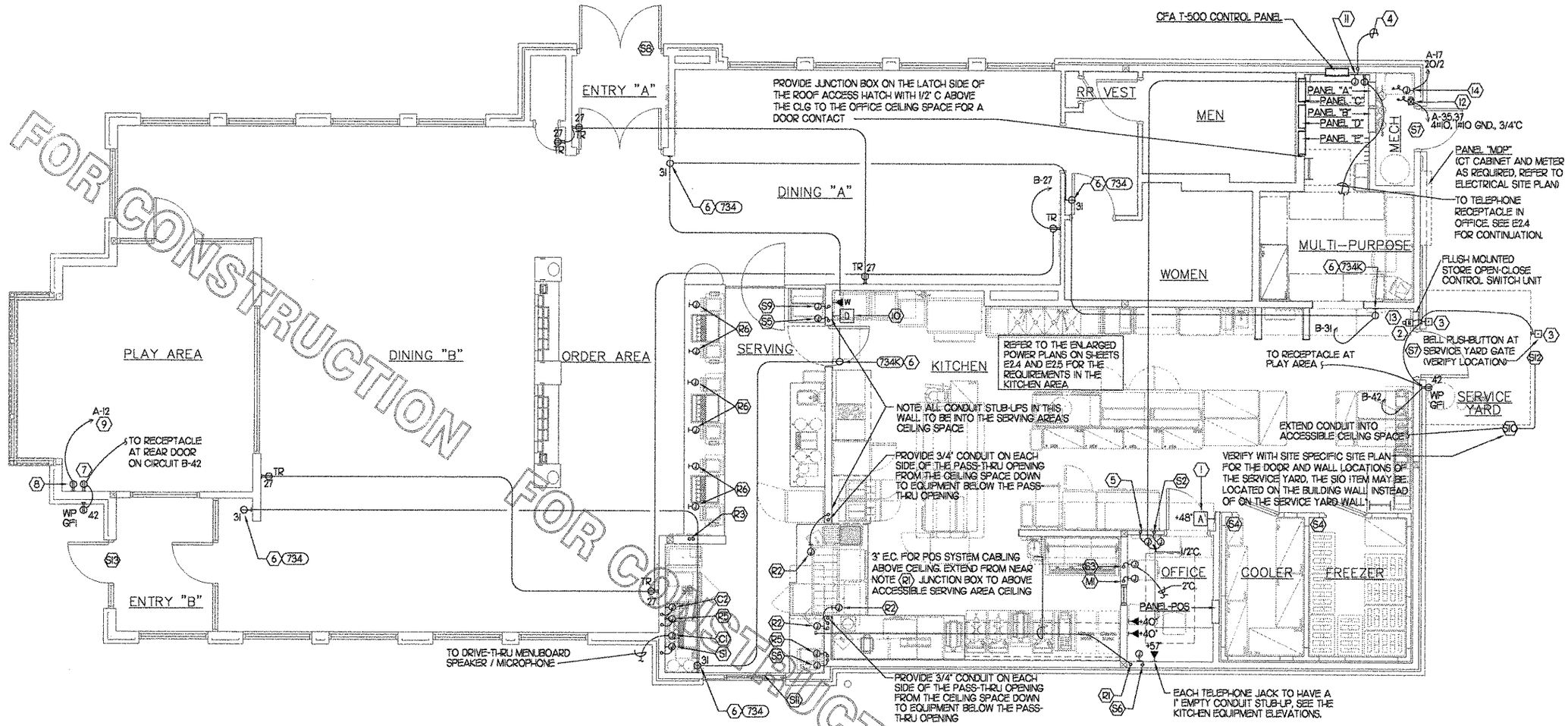
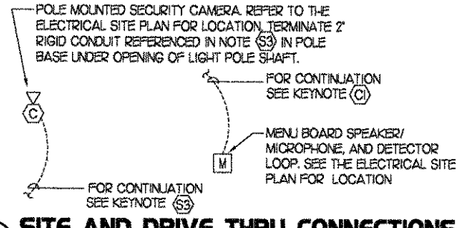


FOR CONSTRUCTION

1 POWER & SYSTEM PLAN

SCALE: 1/4"= 1'-0"



2 SITE AND DRIVE THRU CONNECTIONS

NO SCALE (SEE ELECTRICAL SITE PLAN)

3 KEY NOTES - POWER:

1. PROVIDE OCTAGONAL JUNCTION BOX FOR ANSUL SYSTEM PULL STATION. EXTEND 1/2 " CONDUIT TO ABOVE CEILING FROM BOX.
2. PROVIDE EDWARDS #340-4N5 VIBRATING 4" DIAMETER BELL. BELL SHALL BE RATED AT 120 VOLTS.
3. PROVIDE 120 VOLT, STAINLESS STEEL, WEATHERPROOF DOORBELL PUSH-BUTTON AT DOOR. PUSH-BUTTON SHALL BE SURFACE MOUNTED. PROVIDE EDWARDS #850 PUSH-BUTTON IN BOX WITH EDWARDS #149-1 STAINLESS STEEL PLATE.
4. TELEPHONE SERVICE ENTRANCE CONDUIT(S). EXTEND WITH PULL STRING FROM TELEPHONE SERVICE J-BOX IN MECHANICAL ROOM TO THE TELEPHONE UTILITY SOURCE. REFER TO ES-1.0 FOR LOCATION OF UTILITY SOURCE. REFER TO KEY NOTE-POWER NOTE 5 BELOW FOR CONDUIT CONTINUATION.
5. PROVIDE 4"W X 4"H X 3"D JUNCTION BOX WITH-OUT COVERPLATE, EXTEND 2" RIGID CONDUIT DOWN THROUGH SLAB TO MECHANICAL ROOM AT THE TELEPHONE POINT OF DEMARCATION. EXTEND 1" RIGID CONDUIT TO ABOVE ACCESSIBLE OFFICE AREA CEILING.
6. PROVIDE SINGLE NEMA 5-15R CLOCK RECEPTACLE AT 7'-6" A.F.F. TO CENTERLINE FOR CONNECTION TO FLY SYSTEM EQUIPMENT #734 AND #724K. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT PER MANUFACTURER'S DIRECTIONS.
7. TAMPER RESISTANT RECEPTACLE IN PLAYGROUND SHALL BE COOPER #TR6200GY.
8. PROVIDE RED COLOR RECEPTACLE TO DISTINGUISH THE DEVICE ON A DEDICATED CIRCUIT FOR SOUNDS.
9. ROUTE ISOLATED GROUND CONDUCTOR DIRECT AND UNBROKEN TO PANEL-MDP GROUND BUS. CONDUCTOR TO BE GREEN WITH YELLOW STRIPE.
10. PROVIDE 2 GANG BOX AND CONDUIT ROUGH-IN FOR EACH DUCT SMOKE DETECTOR INDICATED ON THE MECHANICAL DRAWINGS FOR INSTALLATION OF DUCT DETECTOR REMOTE ANNUNCIATORS BY OTHERS.
11. PROVIDE 6"H X 6"W X 3"D INCOMING TELEPHONE SERVICE JUNCTION BOX AT 5 FT AFF EXTEND 2" CONDUIT WITH PULL STRING FROM THIS BOX TO THE NOTE (5) JUNCTION BOX IN THE OFFICE. ROUTE THE 2" CONDUIT BELOW THE SLAB. PROVIDE #6 AWG INSULATED CU GROUND WIRE IN 3/4"C TO GROUND BUS IN PANEL-MDP.
12. FOR CONNECTION TO BOOSTER PUMP. REFER TO THE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. COMBINATION STARTER/DISCONNECT BY ELECTRICAL CONTRACTOR.
13. CONNECT STORE OPEN-CLOSE UNIT SWITCH TO CFA "T-500" CONTROL PANEL VIA 6#12 IN 1" CONDUIT AND IN ACCORDANCE WITH SUNCOAST ENVIRONMENTAL INC WIRING DIAGRAMS.
14. IN NORTHERN CLIMATE LOCATIONS (VERIFY WITH THE MECHANICAL PLANS AND INSTALLER) A WALL HEATER W-H1 0.5KW AT 208V/1P-0 WILL BE LOCATED UNDER THE BOOSTER HEATER'S DISCONNECT SWITCH.

4 KEY NOTES - SECURITY:

- S1 PROVIDE SINGLE GANG JUNCTION BOX AND STAINLESS STEEL COVER PLATE WITH 7/8" HOLE IN CENTER. EXTEND 1" E.C. UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- S2 PROVIDE 4"W X 4"H X 3"D FLUSH JUNCTION BOX WITH-OUT COVERPLATE. EXTEND 2" RIGID CONDUIT UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA. PROVIDE BUSHING ON CONDUIT. CONNECT NOTE (S2) JUNCTION BOX TO NOTE (5) JUNCTION BOX VIA 1/2" RIGID CONDUIT.
- S3 PROVIDE 4"W X 4"H X 3" D JUNCTION BOX WITH-OUT COVERPLATE. EXTEND 2" RIGID E.C. UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA. EXTEND 2" RIGID E.C. DOWN THROUGH SLAB AND BELOW GRADE TO REMOTE CAMERA LOCATION. USE ONLY LONG SWEEPS, 3 FEET PER 90 DEGREES. SEE ELECTRICAL SITE PLAN FOR CONTINUATION.
- S4 PROVIDE TWO GANG WEATHERPROOF JUNCTION BOX AND STAINLESS STEEL PLATE WITH 7/8" HOLE IN CENTER FOR PANIC BUTTON. MOUNT AT APPROXIMATELY 48" A.F.F., EXTEND 1/2" RIGID CONDUIT TO ABOVE ACCESSIBLE CEILING. SEAL PENETRATION AT FREEZER/COOLER ENCLOSURE CEILING.
- S5 PROVIDE SINGLE GANG BOX WITH-OUT COVER PLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING AND TURN TOWARD SERVING AREA SIDE OF WALL.
- S6 PROVIDE SINGLE GANG JUNCTION BOX ON INSIDE FACE OF PARAPET WALL APPROX. 12" BELOW TOP OF PARAPET WALL. EXTEND 1/2" CONDUIT DOWN TO ABOVE ACCESSIBLE OFFICE CEILING.
- S7 EXTEND 1/2" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE EMPLOYEE AREA CEILING.
- S8 EXTEND 1/2" RIGID CONDUIT FROM A POINT 3" WITHIN EITHER HINGE-SIDE DOOR VERTICAL FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- S9 PROVIDE SINGLE GANG JUNCTION BOX WITH-OUT COVERPLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING AND TURN TOWARD SERVING AREA SIDE OF WALL.
- S10 PROVIDE SINGLE GANG, WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED 18" FROM THE CORNER OF THE SERVICE YARD AND JUST BELOW ROOF DECK MOUNTING BRACKETS. ROUTE 1" EMT CONDUIT FROM THE BOX SURFACE MOUNTED JUST BELOW THE ROOF DECK MOUNTING BRACKETS AND TERMINATE THE CONDUIT AT (S12).
- S11 EXTEND 1/2" RIGID CONDUIT FROM A POINT 3" WITHIN STRIKE-SIDE WINDOW FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- S12 PROVIDE SINGLE GANG, WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED JUST ABOVE THE STRIKE SIDE OF OUTSIDE DOOR ON INSIDE OF SERVICE YARD. ROUTE 1" EMT CONDUIT SURFACE MOUNTED FROM BOX JUST BELOW THE ROOF DECK MOUNTING BRACKETS. TERMINATE CONDUIT IN THE ACCESSIBLE CEILING SPACE INSIDE THE BUILDING.
- S13 EXTEND 1/2" RIGID CONDUIT FROM A POINT 3" INSIDE THE STRIKE-SIDE DOOR FRAME MULLION TO ABOVE ACCESSIBLE CEILING.

5 GENERAL NOTES:

1. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
2. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
4. PROVIDE INSULATED BUSHINGS AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.

6 KEY NOTES - COMMUNICATIONS:

- C1 PROVIDE JUNCTION BOX WITH STAINLESS STEEL COVER PLATE AND STANDARD HOLE IN PLATE FOR MICROPHONE. EXTEND 1" E.C. FROM JUNCTION BOX DOWN THROUGH SLAB AND BELOW GRADE TO DRIVE-THRU MENUBOARD SPEAKER AND DETECTOR LOOP. EXTEND 1" E.C. FROM JUNCTION BOX UP IN WALL TO ABOVE CEILING.
- C2 PROVIDE JUNCTION BOX, LESS COVER PLATE, AND EXTEND 1" E.C. UP IN WALL TO ABOVE CEILING FOR INSTALLATION OF WIRELESS COMMUNICATION CONTROL UNIT.

7 KEY NOTES - MUSIC:

- M1 PROVIDE JUNCTION BOX WITH STAINLESS STEEL COVER PLATE AND 3/4" HOLE IN PLATE WITH GROMMET ON HOLE IN PLATE. EXTEND 3/4" E.C. UP IN WALL TO ABOVE CEILING FOR MUSIC SYSTEM.

8 KEY NOTES - POS SYSTEM:

- R1 PROVIDE 3" CONDUIT WITH-OUT COVERPLATES.
- R2 PROVIDE JUNCTION BOX FOR TERMINATION OF 1" CONDUIT. PROVIDE 1" CONDUIT EXTENDING FROM CEILING AND TERMINATED AT JUNCTION BOX ON THE SERVING AREA SIDE OF THE WALL. COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.
- R3 PROVIDE TWO 2" CONDUIT FROM FACE OF WALL AND EXTEND CONDUIT TO ACCESSIBLE CEILING SPACE ABOVE SERVING AREA. CONDUIT SHALL TERMINATE FLUSH WITH FACE OF WALL BELOW COUNTER. CUSTOM STAINLESS STEEL COVER PLATE IN WALL WITH GROMMET ON 2" DIAMETER HOLE AT CONDUIT TERMINATION IN WALL.
- R4 NOT USED.
- R5 PROVIDE JUNCTION BOX FOR TERMINATION OF 1" CONDUIT. PROVIDE 1" CONDUIT EXTENDING FROM CEILING AND TERMINATED AT JUNCTION BOX ON THE SERVING AREA SIDE OF THE WALL. POS SYSTEM SUPPLIER WILL PROVIDE COVER PLATE ON BOX.
- R6 PROVIDE SINGLE GANG EXTRA DEEP JUNCTION BOX MOUNTED ON THE MOUNTING PLATE WITHIN THE FRONT SERVING COUNTER CASEWORK. MOUNT BOX ADJACENT TO THE RECEPTACLE FOR EQUIPMENT 201. DO NOT MOUNT BOX BETWEEN EQUIPMENT 201 AND EQUIPMENT 204 RECEPTACLES.

FOR CONSTRUCTION
FOR CONSTRUCTION

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Revisions:

Mark	Date	By

Seal

3/13/07

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SHEET TITLE
POWER & SYSTEMS PLAN & NOTES

DWG EDITION 05.9
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Date	05/26/06
Drawn By	EAS
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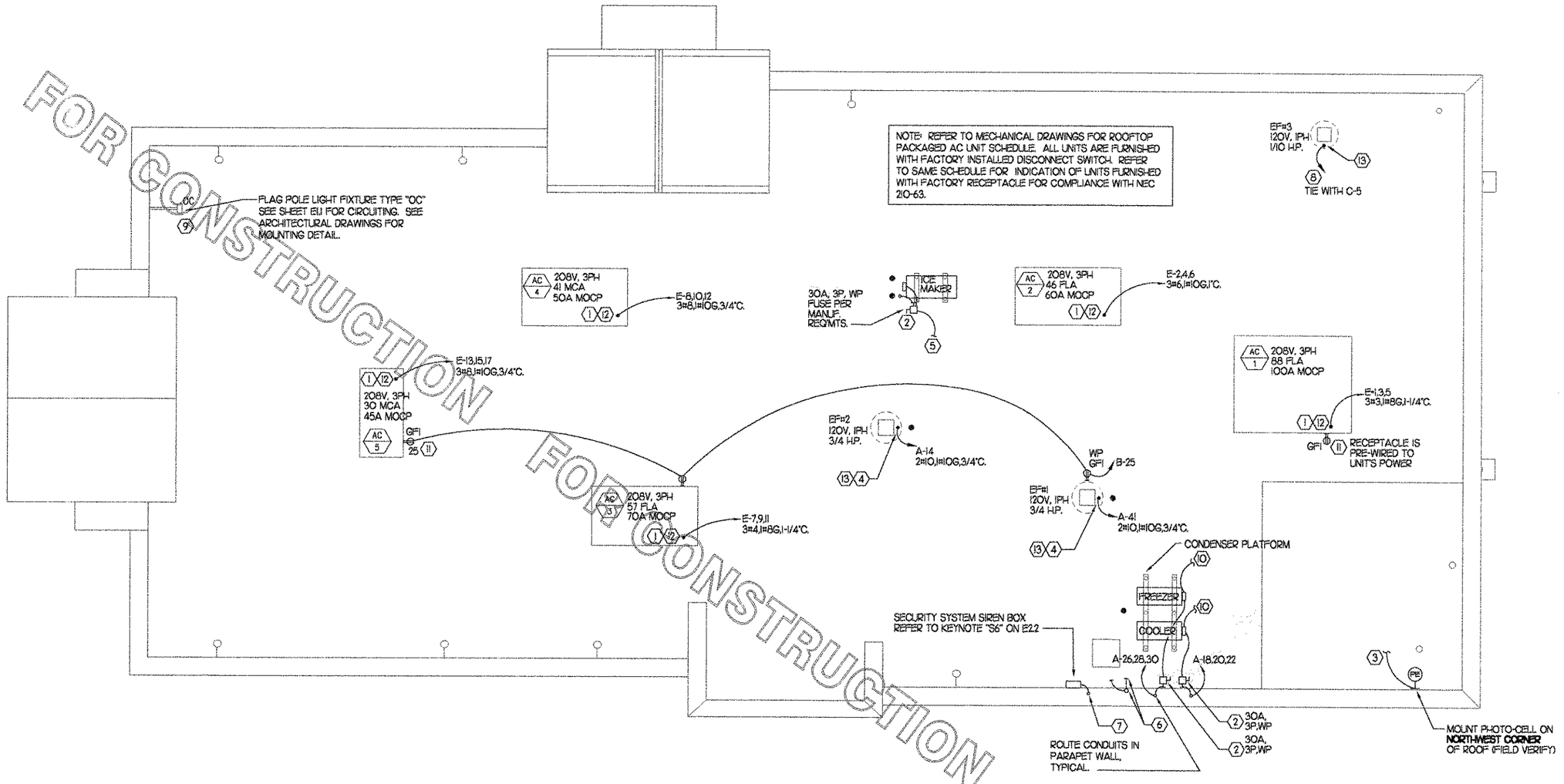
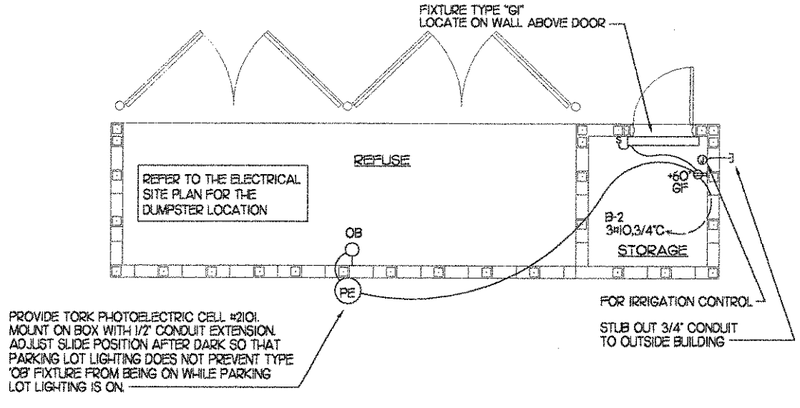
Sheet
E2.2



1 ROOF ELECTRICAL PLAN

SCALE: 1/4"= 1'-0"



2 REFUSE ENCLOSURE PLAN - ELECTRICAL

SCALE: 1/4"=1'-0"

3 KEY NOTES - ROOF ELECTRICAL PLAN:

1. ROUTE ELECTRICAL CONDUITS TO UNIT CONNECTIONS THROUGH WEATHERPROOF RACEWAY FURNISHED WITH UNIT. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.
2. MOUNT DISCONNECT SWITCHES FOR CONDENSERS ON UNISTRUT AND FUSE PER MANUFACTURER REQUIREMENTS.
3. CONNECT PHOTOCELL TO CONTROL PANEL T-500 TERMINALS AS DIRECTED BY SUNCOAST ENVIRONMENTAL INC WIRING DIAGRAMS. PHOTO-CELL FURNISHED WITH PANELBOARD ORDER AND INSTALLED BY CONTRACTOR.
4. COORDINATE EXACT LOCATION OF CONDUIT AND DISCONNECT AT EXHAUST FAN. CONDUIT SHALL BE INSTALLED THROUGH ROOF ON OUTSIDE OF FAN CURB. CONDUIT SHALL BE LOCATED AT FAN HINGE SUCH THAT THE FAN HOOD CAN BE FULLY HINGED OPEN AND NOT TOUCH THE CONDUIT. PROVIDE 14" DIAMETER LOOP IN THE FLEXIBLE CONDUIT BETWEEN THE ROOF AND THE FAN ELECTRICAL CONNECTION.
5. ROUTE NUMBER OF CONDUCTORS PER MANUFACTURER'S REQMENTS IN A 3/4" CONDUIT TO ICE MAKER BELOW FOR POWER AND CONTROL OF ICE MAKER CONDENSING UNIT.
6. PROVIDE 3/4" CONDUIT THROUGH PARAPET FOR COAX CABLE TO MUSIC SYSTEM ANTENNA ON ROOF. TERMINATE OPEN ENDS APPROXIMATELY 10" ABOVE AND 10" BELOW ROOF. SECURE LOWER END OF CONDUIT TO STRUCTURE. WATERPROOF BOOT ON ROOF OPENING FURNISHED AND INSTALLED BY ROOFING CONTRACTOR. PROVIDE #6 CU GROUND IN 3/4"C TO ELECTRICAL SERVICE GROUND FROM ANTENNA.
7. PROVIDE 1/2" E.C. THROUGH PARAPET FOR SECURITY SYSTEM CABLING. TERMINATE OPEN ENDS APPROXIMATELY 18" BELOW TOP OF PARAPET WALL AND ABOVE OFFICE CEILING. SECURE CONDUIT TO STRUCTURE.
8. COORDINATE EXACT LOCATION OF CONDUIT AND DISCONNECT AT EXHAUST FAN. CONDUIT SHALL BE ROUTED THROUGH DUCTWORK, WITHIN FAN ROOF CURB, AND TO THE FAN WIREWAY. PROVIDE SEALTIGHT FITTINGS AS THE CONDUIT ENTERS AND LEAVES THE DUCTWORK. INTERLOCK WITH LIGHTING CIRCUIT IN RESTROOM. REFER TO E2.1 FOR CONTINUATION.
9. MOUNT TYPE 'OC' LIGHTING FIXTURE, WITH INTEGRAL SLIPFITTER, ON PIPE. PIPE WILL BE PROVIDED BY OTHER TRADES. AIM LIGHTING FIXTURE AT NIGHT FOR BEST ILLUMINATION OF FLAG.
10. CONNECT POWER FROM EACH CONDENSING UNITS COMPRESSOR CONTACTOR TO THE EVAPORATOR COIL UNIT'S DEFROST TIMER BELOW. REFER TO E2.4 FOR LOCATION.
11. CONVENIENCE RECEPTACLE PROVIDED PRE-INSTALLED IN HVAC UNIT. CONNECT TO 120 VOLT CIRCUIT AS REQUIRED AND/OR AS INDICATED.
12. A/C UNIT DISCONNECT IS FURNISHED WITH A/C UNIT AND SHALL BE CONNECTED BY THE CONTRACTOR.
13. EXHAUST FAN DISCONNECT IS FURNISHED WITH THE FAN AND SHALL BE CONNECTED BY THE CONTRACTOR.

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Revisions:

Mark	Date	By

Seal

3/13/07

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Chesterfield, MO

SHEET TITLE
ROOF ELECT. PLAN

DWG EDITION 05.9
REVISION –

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Checked By: MTK

Sheet
E2.3

KITCHEN EQUIPMENT MARK NUMBER, SEE SCHEDULE FOR REQMENTS

PANEL AND CIRCUIT NUMBER

BRANCH BREAKER SIZE (AMP/POLES), REFER TO THE CONDUIT AND CONDUCTOR SCHEDULE, FOR WIRE AND CONDUIT SIZE RELATED TO THE BREAKER (VERIFY)

XX X-XX, AMP/POLE

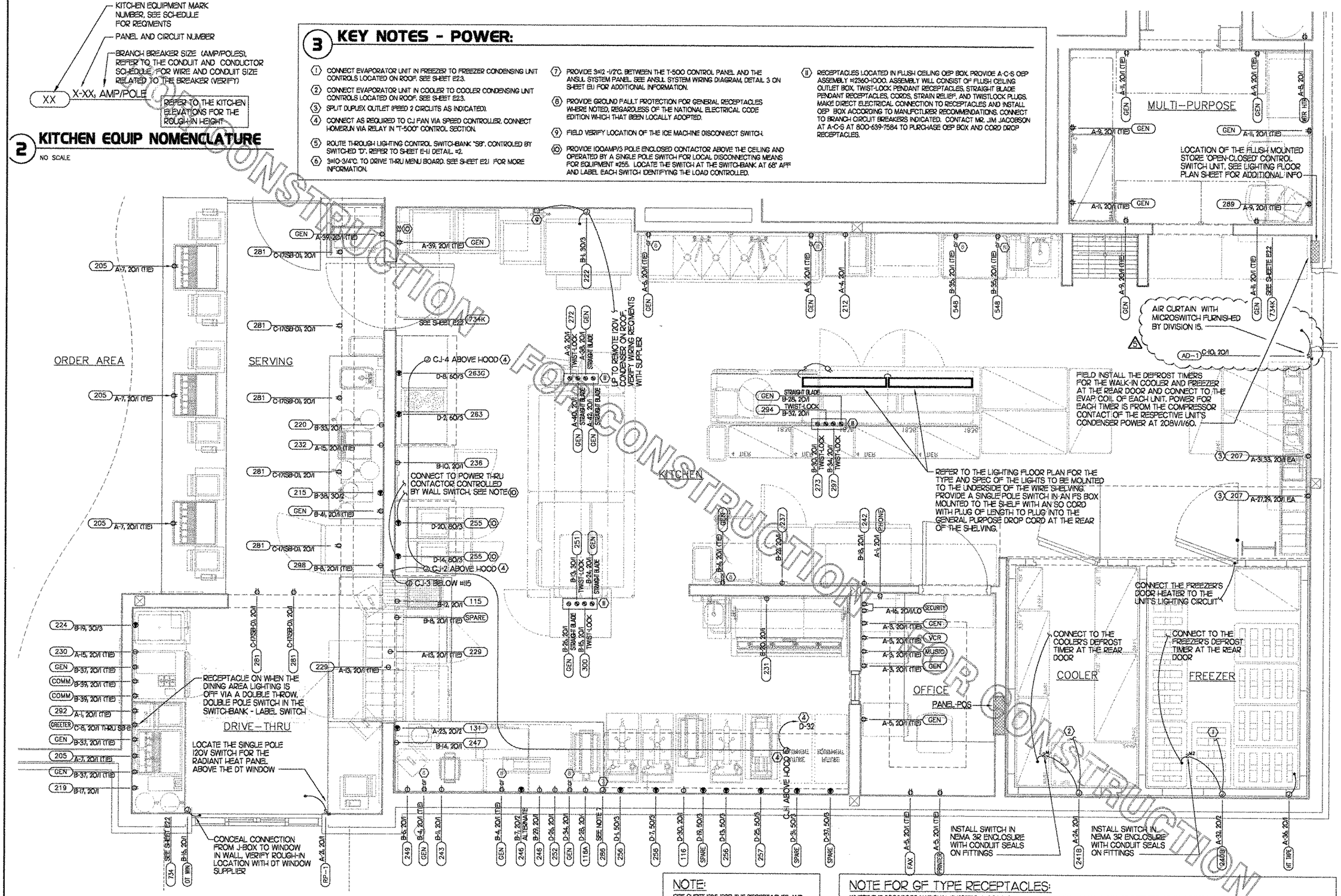
REFER TO THE KITCHEN ELEVATIONS FOR THE ROUGH-IN HEIGHT.

2 KITCHEN EQUIP NOMENCLATURE

NO SCALE

3 KEY NOTES - POWER:

1. CONNECT EVAPORATOR UNIT IN FREEZER TO FREEZER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE SHEET E2.3.
2. CONNECT EVAPORATOR UNIT IN COOLER TO COOLER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE SHEET E2.3.
3. SPLIT DUPLEX OUTLET (FEED 2 CIRCUITS AS INDICATED).
4. CONNECT AS REQUIRED TO C.J FAN VIA SPEED CONTROLLER. CONNECT HOMERUN VIA RELAY IN "T-500" CONTROL SECTION.
5. ROUTE THROUGH LIGHTING CONTROL SWITCH-BANK "S8". CONTROLED BY SWITCHED "D". REFER TO SHEET E-11 DETAIL. #2.
6. 3#10-3/4"C. TO DRIVE THRU MENU BOARD. SEE SHEET E2.1 FOR MORE INFORMATION.
7. PROVIDE 3#12 -1/2"C. BETWEEN THE T-500 CONTROL PANEL AND THE ANSUL SYSTEM PANEL. SEE ANSUL SYSTEM WIRING DIAGRAM, DETAIL 3 ON SHEET E2.1 FOR ADDITIONAL INFORMATION.
8. PROVIDE GROUND FAULT PROTECTION FOR GENERAL RECEPTACLES WHERE NOTED, REGARDLESS OF THE NATIONAL ELECTRICAL CODE EDITION WHICH THAT BEEN LOCALLY ADOPTED.
9. FIELD VERIFY LOCATION OF THE ICE MACHINE DISCONNECT SWITCH.
10. PROVIDE 100AMP/3 POLE ENCLOSED CONTACTOR ABOVE THE CEILING AND OPERATED BY A SINGLE POLE SWITCH FOR LOCAL DISCONNECTING MEANS FOR EQUIPMENT #255. LOCATE THE SWITCH AT THE SWITCH-BANK AT 68" AFF AND LABEL EACH SWITCH IDENTIFYING THE LOAD CONTROLLED.
11. RECEPTACLES LOCATED IN FLUSH CEILING DEP BOX. PROVIDE A-C-S DEP ASSEMBLY #12360-1000. ASSEMBLY WILL CONSIST OF FLUSH CEILING OUTLET BOX, TWIST-LOCK PENDANT RECEPTACLES, STRAIGHT BLADE PENDANT RECEPTACLES, CORDS, STRAIN RELIEF, AND TWISTLOCK PLUGS. MAKE DIRECT ELECTRICAL CONNECTION TO RECEPTACLES AND INSTALL DEP BOX ACCORDING TO MANUFCTURER RECOMMENDATIONS. CONNECT TO BRANCH CIRCUIT BREAKERS INDICATED. CONTACT MR. JIM JACOBSON AT A-C-S AT 800-639-7584 TO PURCHASE DEP BOX AND CORD DROP RECEPTACLES.



1 LARGE SCALE POWER PLAN

SCALE: 1/2"= 1'-0"

NOTE:
SEE SHEET E2.5 FOR THE RECEPTACLES AND CIRCUITS FOR THE POS EQUIPMENT.

NOTE FOR GF TYPE RECEPTACLES:
WHERE THE 2002/2005 NATIONAL ELECTRICAL CODE IS IN EFFECT, THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE VIA A GROUND FAULT TYPE RECEPTACLE UNLESS OTHERWISE NOTED ON THE PLANS. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.

NOT FOR CONSTRUCTION

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Mark	Date	By
5	03-07-07	
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STORE
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FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
ENLARGED POWER PLAN

DWG EDITION 05.9
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Job No.	CF06017
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Drawn By	EAS
Checked By	MTK

Sheet
E2.4

KITCHEN EQUIPMENT MARK NUMBER, SEE SCHEDULE FOR REQMENTS

PANEL AND CIRCUIT NUMBER

BRANCH BREAKER SIZE (AMP/POLES), REFER TO THE CONDUIT AND CONDUCTOR SCHEDULES FOR WIRE AND CONDUIT SIZE RELATED TO THE BREAKER (VERIFY)

XX X-XX, AMP/POLE

REFER TO THE KITCHEN ELEVATIONS FOR THE ROUGH-IN HEIGHT

2 KITCHEN EQUIP NOMENCLATURE

NO SCALE

3 KEY NOTES - POS:

(P1) PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.

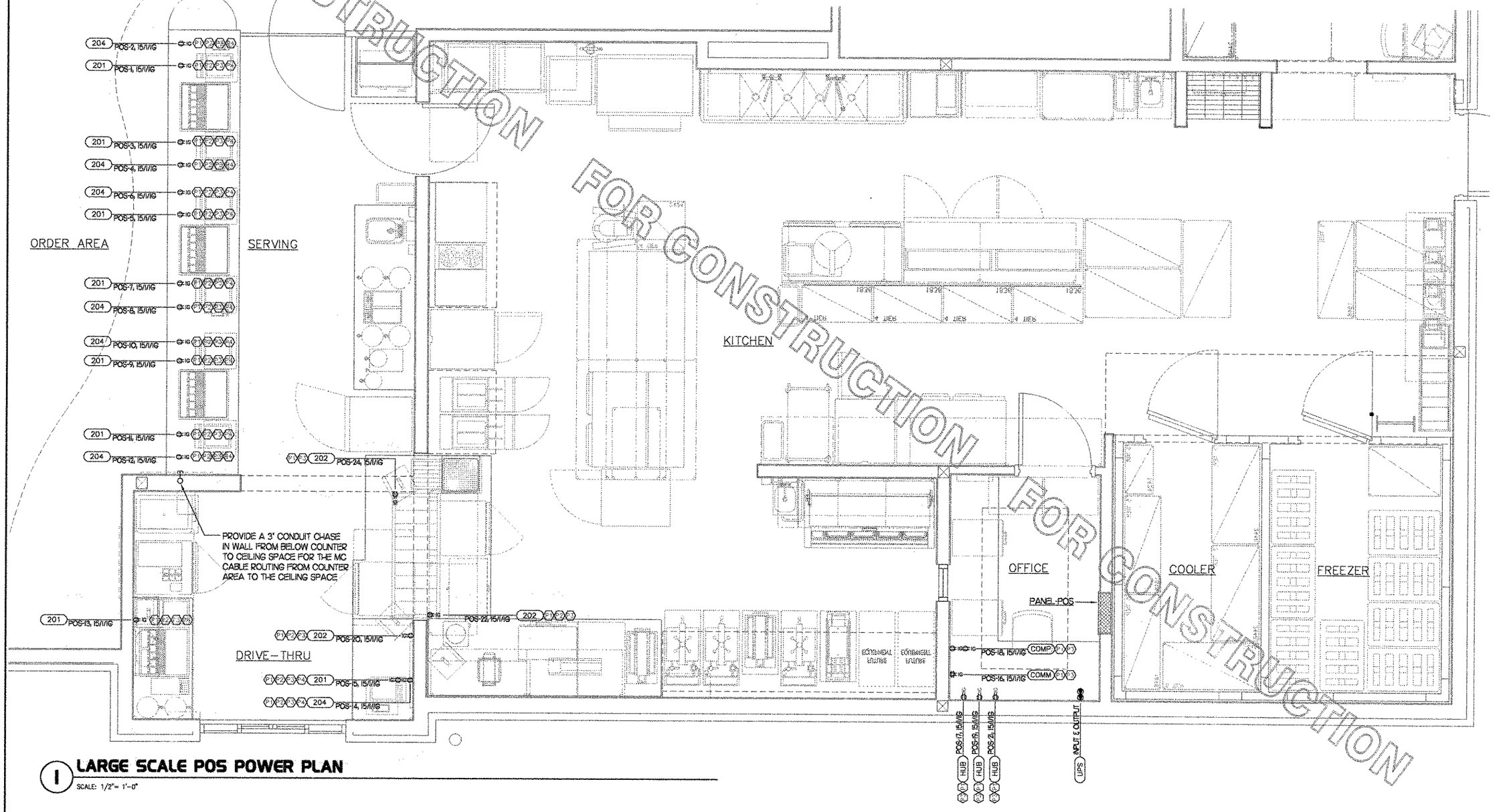
(P2) WHERE 2002 NATIONAL ELECTRICAL CODE IS IN EFFECT, PROVIDE GROUND FAULT PROTECTION FOR THESE DEVICES VIA A GROUND FAULT CIRCUIT BREAKER.

(P3) USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED IG. EACH 15A RECEPTACLE SHALL BE DEDICATED TO A CIRCUIT BREAKER. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY CABLES. CABLE TO BE AFC CABLE SYSTEM #MC-TUFF-IG.

(P4) THE RECEPTACLE BACKBOX AND SYSTEM CABLE JUNCTION BOX FOR ITEMS 201 AND 204 SHALL BE TURNED HORIZONTAL. REFER TO THE KITCHEN EQUIPMENT ROUGH-IN ELEVATIONS FOR ADDITIONAL INFORMATION.

NOTE:
RECEPTACLES FOR THE POS EQUIPMENT SHALL BE THE ONLY ITEMS THAT CONNECT TO PANEL-POS. THERE SHALL BE NO OTHER LOADS CONNECTED TO THIS ISOLATED GROUND PANEL AND, IF SO, SHALL BE REMOVED AND RECONNECTED TO ANOTHER PANELBOARD AT THE EXPENSE OF THE CONTRACTOR.

NOTE FOR POS GF IN KITCHEN:
WHERE THE 2002/2005 NATIONAL ELECTRICAL CODE IS IN EFFECT, THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP ISOLATED GROUND RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BREAKER VIA A GROUND FAULT TYPE BRANCH BREAKER.



1 LARGE SCALE POS POWER PLAN

SCALE: 1/2"= 1'-0"

FOR CONSTRUCTION
FOR CONSTRUCTION
FOR CONSTRUCTION

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Revisions:

Mark	Date	By

Seal

3/13/07

STORE
Chesterfield Commons
FSU S06C--R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
ENLARGED POS POWER PLAN

DWG EDITION 05.9
REVISION —

Job No. : CF06017
Store : 1976
Date : 05/26/06
Drawn By : EAS
Checked By: MTK

Sheet
E2.5

PANELBOARD SCHEDULE - PANEL-A

S06 BCDE

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	A	SWITCH RATED:	SW	KVA PHASE A	13.9
MANUFACTURER / TYPE:	SEC / NQOD	ISOLATED GROUND:	IG	KVA PHASE B	13.4
VOLTS:	208 Y 120	GROUND FAULT:	GF	KVA PHASE C	11.3
PHASE / WIRE:	3 / 4	HACR:	HA	AMPS PHASE A	116
MAIN TYPE / CU BUS AMPS:	MLO / 225	SHUNT TRIP:	ST	AMPS PHASE B	112
AIC SERIES RATING:	65,000 MINIMUM	LOCK-ON:	LO	AMPS PHASE C	94.2
MOUNTING:	FLUSH	NOTES:		KVA CONNECTED	38.7
NEMA RATING:	1			KVA DIVERSIFIED	33.8
QUANTITY OF SECTIONS:	1			AMPS CONNECTED	107
				AMPS DIVERSIFIED	93.8

Note	CIR NO.	LOAD DESCRIPTION	EQP NO	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	EQP NO	LOAD DESCRIPTION	CIR NO.	Note
	1	TELEPHONE DT VIDEO		R	0.540	20/1	A	20/1	1.176	K	272	FLOOR MIXER	2	H
	3	OFFICE GEN & MUSIC		R	0.720	20/1	B	20/1	1.675	K	212	TEA BREWER	4	H
	5	OFFICE GEN/PRINTER		R	0.540	20/1	C	20/1	0.360	R		GENERAL OUTLETS	6	H
H	7	FOUR DRINK TOWERS	205	K	0.720	20/1	A	20/1	1.440	MS		WATER HEATER	8	
	9	GENERAL OUTLETS		R	1.080	20/1	B	20/1	2.016			UPS RECEPTACLE (POS)	10	
	11	GENERAL OUTLETS		R	1.080	20/1	C	20/1/GF	0.180	R		PLAY AREA OUTLET	12	
H	13	TWO U.C. REFRIG	229	K	0.792	20/1/LO	A	25/1	1.587	M1	EF-2	EF-2 3/4 HP	14	A
H	15	TWO U.C. REFRIG	230/232	K	1.224	20/1/LO	B	20/1/LO	0.360	R		SECURITY SYSTEM	16	
	17	WALL HEATER (NORTH)		HT	0.750	20/2	C	20/3/LO	1.056	K	241A	COOLER CONDENSER	18	
	19			HT	0.750	–	A	–	1.056	K			20	
	21	DT RADIANT HEAT PANEL	RP-1	HT	0.750	20/1	B	–	1.056	K			22	
	23	SANDWICH SLIDE	131	K	1.130	20/2	C	20/1/LO	0.504	K	241B	COOLER EVAP COIL	24	
	25			K	1.130	–	A	20/3/LO	1.128	K	240A	FREEZER CONDENSER	26	
G H	27	CARBONATOR	207	K	0.864	20/1	B	–	1.128	K			28	
G H	29	CARBONATOR	207	K	0.864	20/1	C	–	1.128	K			30	
G H	31	CARBONATOR	207	K	0.864	20/1	A	20/2/LO	1.134	K	240B	FREEZER EVAP COIL	32	
G H	33	CARBONATOR	207	K	0.864	20/1	B	–	1.134	K			34	
	35	BOOSTER PUMP		M1	1.440	20/2	C	20/1/GF	0.500	HT	240	FREEZER HEAT TAPE	36	I
	37			M1	1.440	–	A	20/1	0.18	R		DROP CORD OUTLET	38	H
H	39	GENERAL OUTLETS		R	0.360	20/1	B	20/1	0.18	R		DROP CORD OUTLET	40	H
A	41	EF-1 3/4 HP	EF-1	M1	1.590	25/1	C	20/1	0.18	R		DROP CORD OUTLET	42	H

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS, PROVIDE OPTIONS INDICATED.

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR)	=	DIVERSIFIED KVA
RECEPTACLES	R	5.760	PER(>10KVA@50%)		5.760
MISCELLANEOUS	MS	3.456	1.25		4.320
HEAT	HT	2.750	1		2.750
SINGLE PHASE MOTOR	M1	6.057	1.25		7.571
KITCHEN	K	20.827	0.85		13.408
TOTAL		38.650		TOTAL	33.809

PANELBOARD SCHEDULE - PANEL-B

S06 BCDE

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	B	SWITCH RATED:	SW	KVA PHASE A	16.1
MANUFACTURER / TYPE:	SEC / NQOD	ISOLATED GROUND:	IG	KVA PHASE B	15.8
VOLTS:	208 Y 120	GROUND FAULT:	GF	KVA PHASE C	16.3
PHASE / WIRE:	3 / 4	HACR:	HA	AMPS PHASE A	134
MAIN TYPE / CU BUS AMPS:	MLO / 225	SHUNT TRIP:	ST	AMPS PHASE B	132
AIC SERIES RATING:	65,000 MINIMUM	LOCK-ON:	LO	AMPS PHASE C	138
MOUNTING:	FLUSH	NOTES:		KVA CONNECTED	48.2
NEMA RATING:	1			KVA DIVERSIFIED	35.5
QUANTITY OF SECTIONS:	1			AMPS CONNECTED	134
				AMPS DIVERSIFIED	98.5

Note	CIR NO.	LOAD DESCRIPTION	EQP NO	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	EQP NO	LOAD DESCRIPTION	CIR NO.	Note
	1	ICE MAKER	222	K	2.016	30/3/LO	A	20/1	0.380	EL		REFUSE ENCLOSURE	2	
	3			K	2.016	–	B	20/1	0.540	R		GEN OUTLETS	4	H
	5			K	2.016	–	C	20/1	1.650	K	249	FOOD WARMER	6	H
	7	BUN WARMER (ALT)	246	K	1.660	20/2	A	20/1/LO	0.960	K	298	REF DISPLAY CASE	8	H
	9			K	1.660	–	B	20/1/LO	1.380	K	236	SGL R-1 FREEZER	10	H
H	11	SANDWICH TOASTER	243	K	0.720	20/1	C	20/1	1.900	L	115	FRY HOLDING STAT	12	H
H	13	BISCUIT HOLD. CAB.	251	K	2.290	30/1	A	20/1	1.044	K	247	WARMING DRAWER	14	H
H	15	REFRIG WORK TABLE	300	K	0.684	20/1/LO	B	20/1	0.500	M1		D.T. WINDOW	16	
H	17	SINGLE JUICE DISP.	219	K	0.204	20/1	C	20/1/LO	1.920	K	242	THAWING CABINET	18	H
	19	ICE CREAM MACHINE	224	K	2.040	20/3/LO	A	20/1/LO	1.440	K	231	REF. BREAD TABLE	20	H
	21			K	2.040	–	B	20/1/LO	0.960	K	237	REFRIGERATOR	22	H
	23			K	2.040	–	C	20/1	0.180	R		DROP CORD OUTLET	24	H
	25	ROOF RECEPTACLES		R	0.540	20/1	A	20/1	0.180	R		DROP CORD OUTLET	26	H
	27	GENERAL OUTLETS		R	1.080	20/1	B	20/1	0.180	R		DROP CORD OUTLET	28	H
	29	BUN WARMER	246	K	1.500	20/1	C	20/1	1.920	K	273	FOOD CUTTER	30	
H	31	FLY SYSTEM	734	MS	0.320	20/1	A	20/1/LO	0.684	K	294	REF WORK TABLE	32	H
H	33	DOUBLE JUICE DISP.	220	K	0.480	20/1	B	20/1/LO	1.920	K	297	REF WORK TABLE	34	H
H	35	LEMON JUICER STAND	548	R	0.360	20/1	C	20/1/LO	1.000	MS		T-500/SHUNT TRIP	36	
H	37	GENERAL OUTLETS		R	0.540	20/1	A	30/2	2.000	K	215	COFFEE MAKER	38	
H	39	GENERAL OUTLETS		R	0.360	20/1	B	–	2.000	K			40	
H	41	GENERAL OUTLETS		R	0.180	20/1	C	20/1	0.720	R		GEN.OUTLET/DOORBELL	42	

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS, PROVIDE OPTIONS INDICATED.

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR)	=	DIVERSIFIED KVA
LIGHTING	L	1.900	1.25		2.375
EXTERIOR LIGHTING/SIGNAGE	EL	0.380	1.25		0.475
RECEPTACLES	R	4.860	PER(>10KVA@50%)		4.860
MISCELLANEOUS	MS	1.320	1.25		1.650
SINGLE PHASE MOTOR	M1	0.500	1.25		0.625
KITCHEN	K	39.244	0.65		25.509
TOTAL		48.204		TOTAL	35.494

(1) PANELBOARD NOTES

(A) CONTROLLED BY 2-POLE RELAY IN CONTROL PANEL CFA-T500 AND STORE-OPEN EXHAUST FAN SWITCH.

(B) CONTROLLED BY EXTERIOR SIGN RELAY IN CONTROL PANEL CFA-T500.

(C) CONTROLLED BY EXTERIOR LIGHTING RELAY CONTROL PANEL CFA-T500.

(D) CONTROLLED BY EXTERIOR LIGHTING RELAY - DUSK TO DAWN ZONE.

(E) CONTROLLED BY PARKING LOT LIGHTING CONTROL SWITCH.

(F) WHERE THE ELECTRICAL SITE PLAN SPECIFIES PARKING AREA LAMP WATTAGE LESS THAN 400 WATT, BREAKER SIZE SHALL BE CHANGED TO BE 20 AMP/ 1 POLE.

(G) PROVIDE HANDLE TIES ON SINGLE POLE BREAKERS SERVING SPLIT WIRED RECEPTACLES.

(H) WHERE THE 2002/2005 NATIONAL ELECTRICAL CODE IS IN EFFECT, THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP RECEPTACLES IN THE KITCHEN/FOOD PREPARATION AREA. THE GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE AS A GROUND FAULT TYPE RECEPTACLE UNLESS NOTED OTHERWISE. (NOTE THAT THE RECEPTACLES LOCATED IN THE OEP BOX, THE KITCHEN/SERVING AREA RECEPTACLES SERVING POS EQUIPMENT, AND CIRCUIT B-31, FLY SYSTEM, SHALL BE PROTECTED BY GROUND FAULT TYPE CIRCUIT BREAKERS RATHER THAN GROUND FAULT TYPE CIRCUIT BREAKER SINCE ISOLATED GROUNDING TYPE RECEPTACLES, DROP-CORD RECEPTACLES, AND CLOCK TYPE RECEPTACLES ARE NOT ALSO AVAILABLE AS GROUND-FAULT TYPE RECEPTACLES.)

(I) PROVIDE EQUIPMENT GROUND FAULT PROTECTOR TYPE CIRCUIT BREAKER.

(J) CONTROLLED BY INTERIOR LIGHTING RELAYS IN CONTROL PANEL T-500. LIGHTS SHALL TURN ON WHEN STORE IS OCCUPIED.

PANELBOARD SCHEDULE - PANEL-C

S06 CD

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	C	SWITCH RATED:	SW	KVA PHASE A	13.5
MANUFACTURER / TYPE:	SEC / NQOD	ISOLATED GROUND:	IG	KVA PHASE B	13.3
VOLTS:	208 Y 120	GROUND FAULT:	GF	KVA PHASE C	13.7
PHASE / WIRE:	3 / 4	HACR:	HA	AMPS PHASE A	112
MAIN TYPE / CU BUS AMPS:	MLO / 225	SHUNT TRIP:	ST	AMPS PHASE B	111
AIC SERIES RATING:	65,000 MINIMUM	LOCK-ON:	LO	AMPS PHASE C	114
MOUNTING:	FLUSH	NOTES:		KVA CONNECTED	40.5
NEMA RATING:	1			KVA DIVERSIFIED	50.6
QUANTITY OF SECTIONS:	1			AMPS CONNECTED	112
				AMPS DIVERSIFIED	141

Note	CIR NO.	LOAD DESCRIPTION	EQP NO	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	EQP NO	LOAD DESCRIPTION	CIR NO.	Note
J	1	KITCHEN LTG		L	1.486	20/1	A	20/1	1.620	EL		BUILDING SIGNAGE	2	B
	3	KITCHEN LTG		L	0.684	20/1	B	20/1	1.620	EL		BUILDING SIGNAGE	4	B
J	5	RESTROOM LTG & EF-3		L	0.878	20/1	C	20/1				SPARE	6	
	7	DINING AREA LTG		L	0.322	20/1	A	20/1	0.180	L		AUDIO GREETER OUTLET	8	H △5
J	9	PLAY AREA LTG		L	1.127	20/1	B	20/1	0.960	M1	AD-1	UNHEATED AIR DOOR	10	
	11	DINING AREA LTG		L	0.540	20/1	C	20/1/LO	0.725	EL		SECURITY/FLAGPOLE LTG	12	D
J	13	DINING AREA LTG		L	1.575	20/1	A	20/1				SPARE	14	
J	15	SERVING AREA LTG		L	1.010	20/1	B	20/1				SPARE	16	
	17	MENUBOARDS	281	L	1.740	20/1	C	20/1	1.314	EL		AWNING LTG	18	C
B	19	DIRECTIONAL SIGNS		EL	1.620	20/1	A	20/1	1.470	EL		AWNING LTG	20	C
E F	21	PARKING LOT LTG		EL	1.400	30/1	B	20/1	1.680	EL		AWNING LTG	22	C
E F	23	PARKING LOT LTG		EL	1.400	30/1	C	20/1	1.470	EL		AWNING LTG	24	C
E F	25	PARKING LOT LTG		EL	1.400	30/1	A	20/1				SPARE	26	
E F	27	PARKING LOT LTG		EL	1.400	30/1	B	20/1				SPARE	28	
E F	29	PARKING LOT LTG		EL	1.400	30/1	C	20/1				SPARE	30	
E F	31	PARKING LOT LTG		EL	1.400	30/1	A	20/1				SPARE	32	
	33	MENUBOARD COVE LTG		L	0.195	20/1	B	20/1				SPARE	34	
	35	FRZR/COOLER LTG	240/24	L	1.000	20/1/LO	C	20/1				SPARE	36	
B	37	MAIN ID SIGN		EL	1.620	20/1	A	20/1	0.780	EL		DRIVE-THRU CANOPY	38	
B	39	MAIN ID SIGN		EL	1.620	20/1	B	20/1	1.620	EL		BUILDING SIGNAGE	40	B
B	41	MAIN ID SIGN		EL	1.620	20/1	C	20/1	1.620	EL		BUILDING SIGNAGE	42	B

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS, PROVIDE OPTIONS INDICATED.

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR)	=	DIVERSIFIED KVA
LIGHTING	L	10.737	1.25		13.421
EXTERIOR LIGHTING/SIGNAGE	EL	28.799	1.25		35.999
SINGLE PHASE MOTOR	M1	0.960	1.25		1.200
TOTAL		40.496		TOTAL	50.620

PANELBOARD SCHEDULE - PANEL-D

S06 BCDE

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	D	SWITCH RATED:	SW	KVA PHASE A	48.6
MANUFACTURER / TYPE:	SEC / NQOD	ISOLATED GROUND:	IG	KVA PHASE B	48.6
VOLTS:	208 Y 120	GROUND FAULT:	GF	KVA PHASE C	48.9
PHASE / WIRE:	3 / 4	HACR:	HA	AMPS PHASE A	405
MAIN TYPE / CU BUS AMPS:	MLO / 400	SHUNT TRIP:	ST	AMPS PHASE B	406
AIC SERIES RATING:	65,000 MINIMUM	LOCK-ON:	LO	AMPS PHASE C	407
MOUNTING:	FLUSH	NOTES:		KVA CONNECTED	146
NEMA RATING:	1			KVA DIVERSIFIED	96.1
QUANTITY OF SECTIONS:	1			AMPS CONNECTED	408
				AMPS DIVERSIFIED	267

CIR NO.	LOAD DESCRIPTION	EQP NO	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	EQP NO	LOAD DESCRIPTION	CIR NO.	Note
1	PRESSURE FRYER	256	K	4.560	50/3	A	60/3	5.244	K	263	RANGE/CONV OVEN	2	
3			K	4.560	–	B	–	5.652	K			4	
5			K	4.560	–	C	–	5.604	K			6	
7	PRESSURE FRYER	256	K	4.560	50/3	A	60/3	5.652	K	263C	GRIDDLE/CONV OVEN	8	
9			K	4.560	–	B	–	5.652	K			10	
11			K	4.560	–	C	–	6.000	K			12	
13	PRESSURE FRYER	256	K	4.560	50/3	A	80/3	7.320	K	255	OPEN FRYER	14	
15			K	4.560	–	B	–	7.320	K			16	
17			K	4.560	–	C	–	7.320	K			18	
19	PRESSURE FRYER	256	K	4.560	50/3	A	80/3	7.320	K	255	OPEN FRYER	20	
21	(FUTURE)		K	4.560	–	B	–	7.320	K			22	
23			K	4.560	–	C	–	7.320	K			24	
25	CHARGRILL COOKER	257	K	3.240	50/3	A	20/1	0.480	L	252	HOLDING CABINET	26	H
27			K	3.240	–	B	20/1	1.164	K	116A	HEAT LAMP	28	H
29			K	3.240	–	C	20/1	1.164	K	116	HEAT LAMP	30	H
31	FUTURE EQUIPMENT				50/3	A	20/1	1.150	M1	CJ	FIVE/HOOD CJ FANS	32	
33					–	B	20/1	0.180	R		GENERAL OUTLET	34	
35					–	C	20/1				SPARE	36	
37	FUTURE EQUIPMENT				50/3	A	1 POLE				SPACE	38	
39					–	B	1 POLE				SPACE	40	
41					–	C	1 POLE				SPACE	42	

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS, PROVIDE OPTIONS INDICATED.

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR)	=	DIVERSIFIED KVA
LIGHTING	L	0.480	1.25		0.600
RECEPTACLES	R	0.180	PER(>10KVA@50%)		0.180
SINGLE PHASE MOTOR	M1	1.150	1.25		1.438
KITCHEN	K	144.492	0.65		93.920
TOTAL		146.302		TOTAL	96.137

PANELBOARD SCHEDULE - PANEL-POS

S06 BCDE

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	POS	SWITCH RATED:	SW		
MANUFACTURER / TYPE:	SEC / NQOD	ISOLATED GROUND:	IG	KVA PHASE B	2.02
UPS INPUT VOLT/OUTPUT VOLT	120 / 120	GROUND FAULT:	GF		
PHASE / WIRE:	1 / 4	HACR:	HA		
MAIN TYPE / CU BUS AMPS:	MLO / 100	SHUNT TRIP:	ST	AMPS PHASE B	16.8
AIC SERIES RATING:	65,000 MINIMUM	LOCK-ON:	LO		
MOUNTING:	FLUSH	NOTES:		KVA CONNECTED	2.02
NEMA RATING:	1	CONNECT BOTH PHASE BARS		KVA DIVERSIFIED	2.52
QUANTITY OF SECTIONS:	1	TO PHASE B, FURN. WITH I.G.		AMPS CONNECTED	16.8
		BAR, SEE RISER DIAGRAM		AMPS DIVERSIFIED	21

Note	CIR NO.	LOAD DESCRIPTION	EQP NO	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	EQP NO	LOAD DESCRIPTION	CIR NO.	Note
H	1	CASH REGISTER	201	MS	0.084	15/1/LO	B	15/1/LO	0.012	MS	204	PRINTER	2	H
H	3	CASH REGISTER	201	MS	0.084	15/1/LO	B	15/1/LO	0.012	MS	204	PRINTER	4	H
H	5	CASH REGISTER	201	MS	0.084	15/1/LO	B	15/1/LO	0.012	MS	204	PRINTER	6	H
H	7	CASH REGISTER	201	MS	0.084	15/1/LO	B	15/1/LO	0.012	MS	204	PRINTER	8	H
H	9	CASH REGISTER	201	MS	0.084	15/1/LO	B	15/1/LO	0.012	MS	204	PRINTER	10	H
H	11	CASH REGISTER	201	MS	0.084	15/1/LO	B	15/1/LO	0.012	MS	204	PRINTER	12	H
H	13	CASH REGISTER	201	MS	0.084	15/1/LO	B	15/1/LO	0.012	MS	204	PRINTER	14	H
H	15	CASH REGISTER	201	MS	0.084	15/1/LO	B	15/1/LO	0.360	MS		OFFICE COMPUTER	16	
	17	OFFICE HUB		MS	0.180	15/1/LO	B	15/1/LO	0.180	MS		OFFICE COMPUTER	18	
	19	OFFICE HUB		MS	0.180	15/1/LO	B	15/1/LO	0.060	MS	202	VIDEO MONITOR	20	H
	21	OFFICE HUB		MS	0.180	15/1/LO	B	15/1/LO	0.060	MS	202	VIDEO MONITOR	22	H
	23	SPARE				15/1/LO	B	15/1/LO	0.060	MS	202	VIDEO MONITOR	24	H
	25	SPACE				1 POLE	A	1 POLE				SPACE	26	
	27	SPACE				1 POLE	B	1 POLE				SPACE	28	
	29	SPACE				1 POLE	C	1 POLE				SPACE	30	

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS, PROVIDE OPTIONS INDICATED.

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR)	=	DIVERSIFIED KVA
MISCELLANEOUS	MS	2.016	1.25		2.520
TOTAL		2.016		TOTAL	2.520

PANELBOARD SCHEDULE - PANEL-E

S06 CD

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	E	SWITCH RATED:	SW	KVA PHASE A	31.4
MANUFACTURER / TYPE:	SEC / NQOD	ISOLATED GROUND:	IG	KVA PHASE B	31.4
VOLTS:	208 Y 120	GROUND FAULT:	GF	KVA PHASE C	31.4
PHASE / WIRE:	3 / 4	HACR:	HA	AMPS PHASE A	262
MAIN TYPE / CU BUS AMPS:	MLO / 400	SHUNT TRIP:	ST	AMPS PHASE B	262
AIC SERIES RATING:	65,000 MINIMUM	LOCK-ON:	LO	AMPS PHASE C	262
MOUNTING:	FLUSH	NOTES:		KVA CONNECTED	94.3
NEMA RATING:	1			KVA DIVERSIFIED	94.3
QUANTITY OF SECTIONS:	1			AMPS CONNECTED	262
				AMPS DIVERSIFIED	262

CIR NO.	LOAD DESCRIPTION	EQP NO	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	EQP NO	LOAD DESCRIPTION	CIR NO.
1	ROOFTOP UNIT AC-1	AC-1	HV	10.560	100/3/HA	A	60/3/HA	5.520	HV	AC-2	ROOFTOP UNIT AC-2	2
3	(15 TON UNIT)		HV	10.560	–	B	–	5.520	HV		(8.5 TON UNIT)	4
5			HV	10.560	–	C	–	5.520	HV			6
7	ROOFTOP UNIT AC-3	AC-3	HV	6.840	70/3/HA	A	50/3/HA	4.920	HV	AC-4	ROOFTOP UNIT AC-4	8
9	(12 TON UNIT)		HV	6.840	–	B	–	4.920	HV		(7.5 TON UNIT)	10
11			HV	6.840	–	C	–	4.920	HV			12
13	ROOFTOP UNIT AC-5	AC-5	HV	3.600	45/3/HA	A	20/1				SPARE	14
15	(5 TON UNIT)		HV	3.600	–	B	20/1				SPARE	16
17			HV	3.600	–	C	20/1				SPARE	18
19	SPACE				1 POLE	A	1 POLE				SPACE	20
21	SPACE				1 POLE	B	1 POLE				SPACE	22
23	SPACE				1 POLE	C	1 POLE				SPACE	24
25	SPACE				1 POLE	A	1 POLE				SPACE	26
27	SPACE				1 POLE	B	1 POLE				SPACE	28
29	SPACE				1 POLE	C	1 POLE				SPACE	30

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS, PROVIDE OPTIONS INDICATED

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR)	=	DIVERSIFIED KVA
HVAC	HV	94.320	1		94.320
HEAT	HT	0.000	1		0.000
TOTAL		94.320		TOTAL	94.320

PANELBOARD SCHEDULE - PANEL-MDP

S06 CD

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	MDP	SWITCH RATED:	SW	KVA PHASE A	124
MANUFACTURER / TYPE:	SEC / I-LINE	ISOLATED GROUND:	IG	KVA PHASE B	123
VOLTS:	208 Y 120	GROUND FAULT:	GF	KVA PHASE C	122
PHASE / WIRE:	3 / 4	HACR:	HA	AMPS PHASE A	1030
MAIN TYPE / CU BUS AMPS:	MLO / 800	SHUNT TRIP:	ST	AMPS PHASE B	1025
AIC SERIES RATING:	65,000 MINIMUM	LOCK-ON:	LO	AMPS PHASE C	1014
MOUNTING:	SURFACE	NOTES:		KVA CONNECTED	368
NEMA RATING:	3R	SERVICE ENTRANCE		KVA DIVERSIFIED	311
QUANTITY OF SECTIONS:	1	RATED		AMPS CONNECTED	1022
				AMPS DIVERSIFIED	868

CIR NO.	LOAD DESCRIPTION	EQP NO	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	EQP NO	LOAD DESCRIPTION	CIR NO.
1	PANEL 'A'			13.94	200/3	A	200/3	13.47			PANEL 'C'	2
				13.41	–	B	–	13.32				
				11.30	–	C	–	13.71				
3	PANEL 'B'			16.09	200/3	A	400/3/ST	48.65			PANEL 'D'	4
				15.80	–	B	–	48.77			SHUNT TRIP BREAKER	
				16.31	–	C	–	48.89				
5	PANEL 'E'			31.44	400/3	A	30/3				TVSS	6
				31.44	–	B	–					
				31.44	–	C	–					

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS, PROVIDE OPTIONS INDICATED.

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR)	=	DIVERSIFIED KVA
LIGHTING	L	13.117	1.25		16.396
EXTERIOR LIGHTING/SIGNAGE	EL	29.179	1.25		36.474
RECEPTACLES	R	10.800	PER(>10KVA@50%)		10.400
MISCELLANEOUS	MS	4.776	1.25		5.970
HVAC	HV	94.320	1		94.320
HEAT	HT	2.750	0		0.000
SINGLE PHASE MOTOR	M1	8.667	1.25		10.834
LARGEST MOTOR	LM	20.660	0.25		5.165
KITCHEN	K	204.363	0.65		132.836
TOTAL		388.632		TOTAL	312.395

ELECTRICAL LOAD SUMMARY - S06 CD

(NOT ALL ELECTRIC RESTAURANT)

THE FOLLOWING IS BASED ON 1999 NEC 220-36

LOAD DESCRIPTION	KVA
LIGHTING	13.12
LIGHTING TRACK AT 75 WATTS/FOOT	5.40
EXTERIOR LTG AND SIGNAGE	29.18
RECEPTACLES	10.80
MISCELLANEOUS	4.78
AIR CONDITIONING	94.32
ELECTRIC HEAT	2.75
SINGLE PHASE MOTORS	8.67
THREE PHASE MOTORS	0.00
KITCHEN EQUIPMENT	204.36
TOTAL CONNECTED KVA	373.37
IF TOTAL IS 0-250 KVA, THEN TOTAL LOAD AT 100%	0.00
IF TOTAL IS 251-280 KVA, THEN TOTAL LOAD AT 90%	0.00
IF TOTAL IS 281-325 KVA, THEN TOTAL LOAD AT 80%	0.00
IF TOTAL IS 326-375 KVA, THEN TOTAL LOAD AT 70%	261.36
DIVERSIFIED AMPS AT 208 VOLT	726.01

STANDARD NEC CALCULATION METHOD IS SUMMARIZED ON SCHEDULE FOR PANEL-MDP USING NEC 220-10, 220-11, 220-13, AND 220-20.

THE FOLLOWING IS BASED ON NEC 2002-220.36 OR 2005-220.88

TOTAL CONNECTED KVA	373.37
IF TOTAL IS 0-200 KVA, THEN TOTAL LOAD 100%	0.00
IF TOTAL IS 201-325 KVA, THEN LOAD OVER 200 AT 50% + 200	0.00
IF TOTAL LOAD IS 326-800 KVA, THEN LOAD OVER 325 AT 45% + 262.5	284.27
IF TOTAL LOAD IS OVER 800 KVA, THEN LOAD OVER 800 AT 20% + 476.3	0.00
DIVERSIFIED AMPS AT 208 VOLT	789.63

NOTE: THE LIGHTING LOAD LISTED IS FOR THE S06C (LARGE) BUILDING AND THE S06C (MEDIUM) BUILDING IS 0.754 KVA LESS LOAD FOR THE LIGHTING. ALL OTHER LOADS ARE THE SAME.

FOR CONSTRUCTION

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30349-2998

Revisions:

Mark	Date	By
△5	03-07-07	
HEALTH COMMENTS		
△		
△		

Seal

3/13/07

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SHEET TITLE
PANEL
SCHEDULES

DWG EDITION 05.9
REVISION –

Job No. : CF06017
Store : 1976
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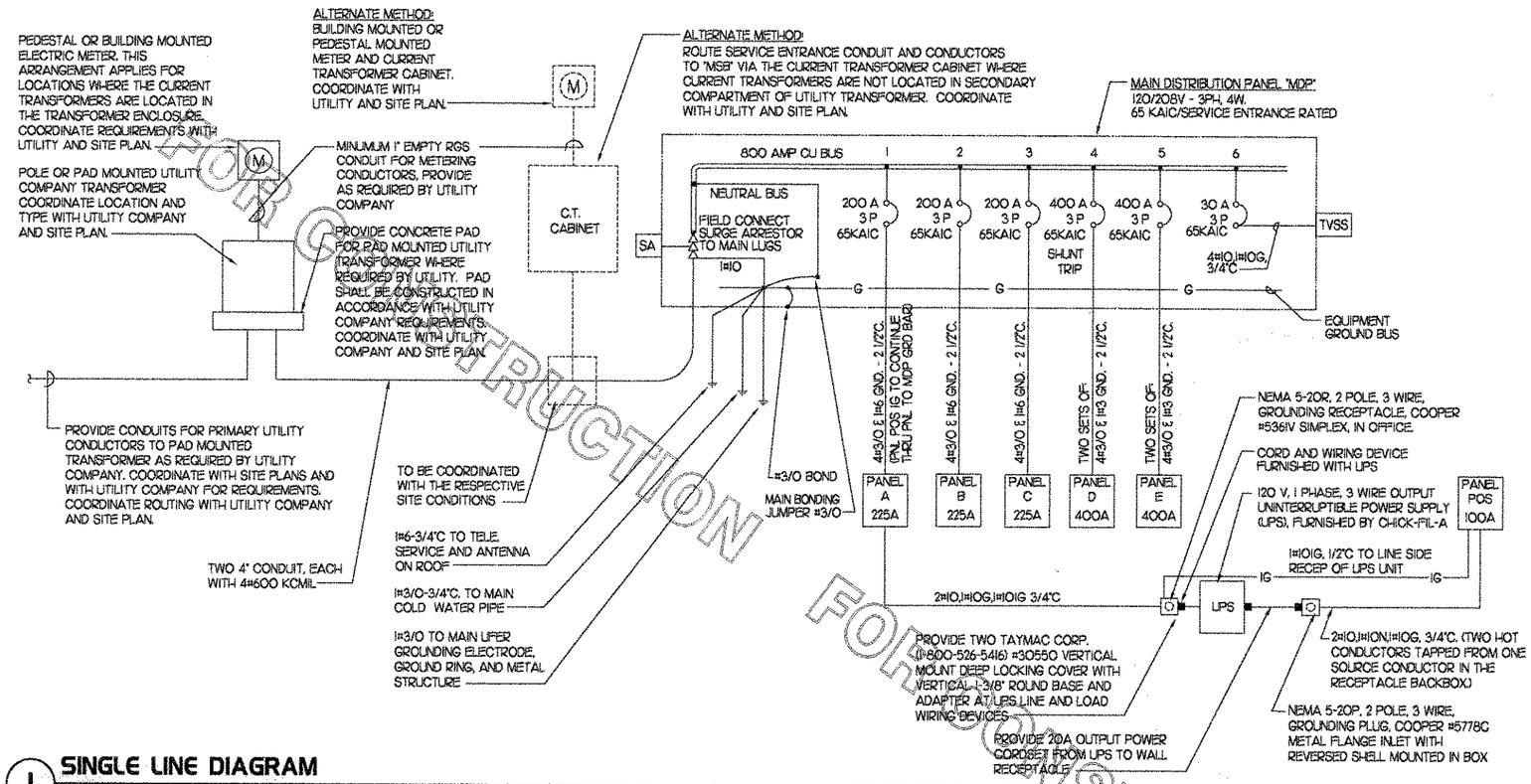
E3.1



1 SINGLE LINE DIAGRAM

NOT TO SCALE

2 CONDUIT AND CONDUCTORS SCHEDULE

BASED ON THE 1999 AND 2002 NATIONAL ELECTRICAL CODE

MARK NO.	OCP DEVICE (AMP/P)	LOAD IN AMPERES	CONDUCTORS PHASE & NEUTRAL QTY	SIZE	TYPE	EQUIP GRD QTY	SIZE	NO. SETS	RACEWAY SIZE (NOMINAL INCHES) PHASE, NEUTRAL & EQ GRD EMT	IMC	RIGID	PVC	WITH IG EMT	IMC	PVC
1	20/1	1 - 16	2	12	TH-HN	1	12	ONE	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	20/2	1 - 16	3	12	TH-HN	1	12	ONE	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	20/3	1 - 16	4	12	TH-HN	1	12	ONE	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	25/1	17 - 20	2	10	TH-HN	1	10	ONE	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	25/2	17 - 20	3	10	TH-HN	1	10	ONE	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	25/3	17 - 20	4	10	TH-HN	1	10	ONE	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	30/1	21 - 24	2	10	TH-HN	1	10	ONE	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	30/2	21 - 24	3	10	TH-HN	1	10	ONE	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	30/3	21 - 24	4	10	TH-HN	1	10	ONE	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	40/1	25 - 32	2	8	TH-HN	1	10	ONE	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	40/2	25 - 32	3	8	TH-HN	1	10	ONE	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	40/3	25 - 32	4	8	TH-HN	1	10	ONE	3/4	3/4	3/4	3/4	3/4	3/4	1
13	50/1	33 - 40	2	8	TH-HN	1	10	ONE	3/4	3/4	3/4	3/4	3/4	3/4	3/4
14	50/2	33 - 40	3	8	TH-HN	1	10	ONE	3/4	3/4	3/4	3/4	3/4	3/4	3/4
15	50/3	33 - 40	4	8	TH-HN	1	10	ONE	3/4	3/4	3/4	3/4	3/4	3/4	1
16	60/1	41 - 48	2	6	TH-W	1	10	ONE	3/4	3/4	3/4	1	1	1	1
17	60/2	41 - 48	3	6	TH-W	1	10	ONE	1	1	1	1	1 1/4	1	1 1/4
18	60/3	41 - 48	4	6	TH-W	1	10	ONE	1 1/4	1	1	1 1/4	1 1/4	1 1/4	1 1/4
19	70/1	49 - 56	2	4	TH-W	1	8	ONE	1	1	1	1	1 1/4	1	1 1/4
20	70/2	49 - 56	3	4	TH-W	1	8	ONE	1 1/4	1	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
21	70/3	49 - 56	4	4	TH-W	1	8	ONE	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
22	80/2	57 - 64	3	3	TH-W	1	8	ONE	1 1/4	1	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
23	80/3	57 - 64	4	3	TH-W	1	8	ONE	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
24	90/2	65 - 72	3	3	TH-W	1	8	ONE	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
25	90/3	65 - 72	4	3	TH-W	1	8	ONE	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/4	1 1/2
26	100/2	73 - 80	3	3	TH-W	1	8	ONE	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
27	100/3	73 - 80	4	3	TH-W	1	8	ONE	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/4	1 1/2
28	110/2	81 - 88	3	2	TH-W	1	6	ONE	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/4	1 1/2
29	110/3	81 - 88	4	2	TH-W	1	6	ONE	1 1/2	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
30	125/2	89 - 100	3	1	TH-W	1	6	ONE	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2
31	125/3	89 - 100	4	1	TH-W	1	6	ONE	2	2	2	2	2	2	2
32	150/2	101 - 120	3	1/0	TH-W	1	6	ONE	2	2	2	2	2	2	2
33	150/3	101 - 120	4	1/0	TH-W	1	6	ONE	2	2	2	2	2	2	2
34	175/2	121 - 140	3	2/0	TH-W	1	6	ONE	2	2	2	2	2	2	2
35	175/3	121 - 140	4	2/0	TH-W	1	6	ONE	2	2	2	2	2 1/2	2 1/2	2 1/2
36	200/2	141 - 160	3	3/0	TH-W	1	6	ONE	2	2	2	2	2 1/2	2 1/2	2 1/2
37	200/3	141 - 160	4	3/0	TH-W	1	6	ONE	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
38	225/2	161 - 180	3	4/0	TH-W	1	4	ONE	2 1/2	2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
39	225/3	161 - 180	4	4/0	TH-W	1	4	ONE	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	3	3
40	250/3	181 - 200	4	250	TH-W	1	4	ONE	2 1/2	3	3	3	3	3	3
41	300/3	201 - 240	4	350	TH-W	1	4	ONE	3	3	3	3	3	3 1/2	3 1/2
42	350/3	241 - 280	4	500	TH-W	1	3	ONE	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	4	4
43	400/3	281 - 320	4	3/0	TH-W	2	3	TWO	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
44	600/3	321 - 480	4	350	TH-W	2	1	TWO	3	3	3	3	3	3 1/2	3 1/2
45	800/3	481 - 640	4	500	TH-W	2	1/0	TWO	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	4	4
46	1000/3	641 - 800	4	400	TH-W	3	2/0	THREE	3	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
47	1200/3	801 - 960	4	350	TH-W	4	3/0	FOUR	3	3	3	3	3	3 1/2	3 1/2
48	1600/3	961 - 1280	4	400	TH-W	5	4/0	FIVE	3	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2

NOTES:

CONDUCTORS ARE RATED AT 600 VOLT OR BELOW AND ARE COPPER.

NEC TABLE 310-16 IS USED FOR THE BASIS OF THE CONDUCTOR AMPACITIES, WHICH IS NOT MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A RACEWAY AT AN AMBIENT TEMPERATURE OF 30 DEG C WITH 75 DEG C RATED TERMINATION CONNECTORS PER 110-14C, VERIFY WITH ACTUAL EQUIPMENT USED.

NEC APPENDIX C IS USED FOR THE BASIS OF THE CONDUIT SIZES. TABLE C1 FOR EMT, TABLE C4 FOR IMC, TABLE C8 FOR RIGID, AND TABLE C10 FOR PVC (SCH 40).

ALL BRANCH FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE A GREEN EQUIPMENT GROUND.

OMIT GROUNDING CONDUCTOR ON SERVICE ENTRANCE FEEDERS.

OMIT NEUTRAL CONDUCTOR ON ALL DELTA PRIMARY TRANSFORMER FEEDERS.

THE ABOVE CONDUCTORS ARE NOT CALCULATED FOR VOLTAGE DROP. ANY CIRCUITS THAT EXCEED 100 FEET SHALL BE CALCULATED BY THE INSTALLER TO HAVE LESS THAN A THREE PERCENT VOLTAGE DROP ON FEEDERS AND FIVE PERCENT ON BRANCH CIRCUITS PER THE NEC.

3 SINGLE LINE DIAGRAM NOTES

1. VERIFY SERVICE LOCATIONS AND CONFORM TO THE REQUIREMENTS OF THE POWER COMPANY AND/OR DEVELOPER. POWER COMPANY AND/OR DEVELOPER SHALL BE CONTACTED PRIOR TO BEGINNING CONSTRUCTION TO ARRANGE AND VERIFY FOR THE INSTALLATION OF THE POWER COMPANY SERVICE, METER AND OTHER ITEMS.
2. GROUND ALL EQUIPMENT AND SERVICES IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LOCAL APPLICABLE CODES, AND ALSO AS INDICATED ON DRAWINGS.
3. MAKE THE NECESSARY INSPECTIONS OF EXISTING SITE AND SERVICE LOCATIONS AS REQUIRED FOR THIS WORK AND MAKE ALLOWANCE FOR EXISTING CONDITIONS BEFORE SUBMITTING BID. VERIFY WORK REQUIRED WITH POWER COMPANY AND TELEPHONE COMPANY.
4. CUT AND PATCH THE CONSTRUCTION WORK AS REQUIRED FOR PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL MATCH THE SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT. ALL CONDUIT SHALL BE INSTALLED CONCEALED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT. COORDINATE SAW CUTTING WITH LANDLORD'S OR OWNER'S REPRESENTATIVE.
5. WIRE AND CABLE:
   A. CONDUCTORS SHALL BE COPPER, #12 AWG, MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE.
   B. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID AND #8 AWG AND LARGER SHALL BE STRANDED. INSULATION SHALL BE 600 VOLT, THHN/THWN.
6. PROVIDE ENGRAVED LAMINATED PHENOLIC BLACK-ON-WHITE (UNLESS NOTED OTHERWISE) NAMEPLATES SECURED TO EQUIPMENT WITH ADHESIVE AND SCREWS FOR PANELBOARDS, RELAY CABINETS, TRANSFORMERS, DISTRIBUTION BOARDS, AND MAIN PANELBOARD - IDENTIFYING EQUIPMENT DESIGNATION (CORRESPONDING WITH DESIGNATION USED ON DRAWINGS) AND EQUIPMENT VOLTAGE. LETTERING SHALL BE 1/4" HIGH. PROVIDE LABELS FOR CIRCUIT BREAKERS, FUSIBLE SWITCHES AND STARTERS IN PANELBOARDS AND DISTRIBUTION BOARDS FOR EACH DEVICE IDENTIFYING EQUIPMENT CONTROLLED. LETTERING SHALL BE 1/8" HIGH.
7. ALL DEVICES SHALL HAVE AN INTERRUPTING CAPACITY NOT LESS THAN THE POWER COMPANY AVAILABLE FAULT CURRENT, OR AS INDICATED ON THE DRAWINGS.
8. 120/208 VOLT BRANCH CIRCUIT PANELBOARD BREAKERS SHALL HAVE A MINIMUM UL SERIES RATING OF 65 KAIC WITH UP-STREAM FEEDER BREAKERS AS NOTED.
9. AVAILABLE SPACE FOR MAIN PANELBOARD IS LIMITED. PANELBOARD MUST FIT IN ALLOCATED SPACE. COORDINATE WITH CONSTRUCTION AS REQUIRED.
10. ALL WIRING SHALL BE IN CONDUIT, E.M.T. OR RIGID. FLEXIBLE CONDUIT MAY ONLY BE USE FOR FINAL CONNECTIONS AND WITH GREEN EQUIPMENT GROUNDING CONDUCTOR.

4 SWITCHGEAR AND CONTROL EQUIPMENT NOTES:

1. PURCHASE PANELBOARDS, WIREWAYS, SURGE ARRESTOR, AND TVSS FROM SUNCOAST ENVIRONMENTAL, INC. CONTACT : SCOTT DYER (877)544-6679. NO SUBSTITUTIONS ALLOWED.
2. PURCHASE CONTROL PANEL "T-500" ALSO FROM SUNCOAST ENVIRONMENTAL, INC. NO SUBSTITUTIONS ALLOWED. ALL EQUIPMENT IN THE CONTROL PANEL SHALL BE INSTALLED, WIRED AND CONNECTED AT THE FACTORY, INCLUDING: AUTOMATIC LIGHTING CONTROL SYSTEM, LIGHTING RELAYS, HVAC STARTERS, POWER SUPPLIES, MISCELLANEOUS RELAYS AND CONTROLS, AND THERMOSTATS.
3. CONTRACTOR SHALL PROVIDE PANEL FEEDERS A, B, C, D AND POS, BRANCH CIRCUIT CONDUIT AND WIRE, AND SHALL INSTALL ALL EQUIPMENT AS REQUIRED.
4. ALL BREAKERS AND PANELS SHALL BE SQUARE D AS DESIGNED AND FURNISHED THRU SUNCOAST ENVIRONMENTAL, INC. NO SUBSTITUTIONS ALLOWED.
5. TVSS AND SURGE ARRESTOR UNITS SHALL BE MOUNTED DIRECTLY ADJACENT TO THE SIDE OF THE MAIN DISTRIBUTION PANEL IN NEMA 3R ENCLOSURES. CLOSE NIPPLE THE UNITS TO THE SIDE OF THE PANEL. PROVIDE CONNECTION OF TVSS UNIT TO BREAKER IN PANEL. CONNECT SURGE ARRESTOR TO MAIN INCOMING LUGS OF THE PANEL. CONNECT BOTH WITH WIRE LENGTH OF MAXIMUM 12" AND WITHOUT BENDS IN WIRING.

FOR CONSTRUCTION
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Revisions:

Mark	Date	By

Seal

3/13/07

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STORE
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FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
SINGLE LINE RISER DIAGRAM

DWG EDITION 05.9
REVISION –

Job No. : CF06017
Store : 1976
Date : 05/26/06
Drawn By : EAS
Checked By: MTK

Sheet
E3.2

1 ELECTRICAL SPECIFICATIONS

SECTION 16000 - ELECTRICAL GENERAL PROVISIONS

PART 1- GENERAL

1.01 WORK INCLUDED

A. PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS INDICATED ON DRAWINGS AND AS SPECIFIED HEREIN.

1.02 REGULATORY REQUIREMENTS

A. EQUIPMENT FURNISHED SHALL BE UL LISTED WHERE SUCH LABEL IS AVAILABLE. INSTALLATION SHALL CONFORM TO UL STANDARDS WHERE APPLICABLE.

B. ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS, NEC AND NFPA CODES IN EFFECT AT PROJECT LOCATION, STATE AND LOCAL ELECTRICAL AND BUILDING CODES AND SPECIAL CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS WITHIN COMPLETE INSTALLATION.

C. OBTAIN PERMITS AND CERTIFICATES OF APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION OVER THE INSTALLATION AND PAY ALL FEES REQUIRED.

1.03 SUBMITTALS

A. SUBMIT LIST OF MATERIALS AND EQUIPMENT PRIOR TO MANUFACTURE, ORDER OR INSTALLATION AND WITHIN TWENTY DAYS AFTER AWARD OF CONTRACT FOR APPROVAL. INCLUDE EACH ITEM OF MATERIAL AND EQUIPMENT WHETHER OR NOT SHOP DRAWINGS ARE ALSO REQUIRED. LIST SHALL INCLUDE NAME OF MANUFACTURER, CATALOG NUMBER AND OTHER COMPLETE IDENTIFICATION AS WELL AS DIMENSIONS AND DETAILED DATA. SUBMITTALS SHALL INCLUDED FOR THE FOLLOWING:

LIGHTING FIXTURES
PANELBOARDS/BREAKERS
WIRING DEVICES AND DEVICE PLATES
ENCLOSED SWITCHES

B. CERTIFIED SHOP DRAWINGS AND SUBMITTALS SHALL BEAR STAMP OF APPROVAL OF CONTRACTOR AS EVIDENCE THAT DRAWINGS HAVE BEEN CHECKED. DRAWINGS SUBMITTED WITHOUT THIS STAMP OF APPROVAL WILL NOT BE CONSIDERED AND WILL BE RETURNED FOR PROPER RESUBMISSION.

C. IF SUBMITTALS SHOW VARIANCES OR SUBSTITUTIONS FROM REQUIREMENTS OF CONTRACT, CONTRACTOR SHALL MAKE SPECIFIC MENTION OF SUCH VARIATION IN HIS LETTER OF TRANSMITTAL IN ORDER THAT, IF ACCEPTABLE, SUITABLE ACTION MAY BE TAKEN FOR PROPER ADJUSTMENT. OTHERWISE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR EXECUTING WORK IN ACCORDANCE WITH CONTRACT EVEN THOUGH SUCH SUBMITTALS HAVE BEEN APPROVED.

1.04 SITE VISIT

A. VISIT JOB SITE PRIOR TO BID DATE TO DETERMINE ACTUAL CONDITIONS UNDER WHICH WORK SHALL BE DONE, TO FAMILIARIZE ONESELF WITH PROJECT AND TO VERIFY TOTAL SCOPE OF WORK REQUIRED. FAILURE TO DO SO SHALL NOT CONSTITUTE A REASON FOR AN EXTRA CHARGE.

SECTION 16050 - BASIC MATERIALS AND METHODS

PART 1 - GENERAL

1.01 COORDINATION

A. OBTAIN AND REVIEW SHOP DRAWINGS, PRODUCT DATA, AND MANUFACTURER'S INSTRUCTIONS FOR EQUIPMENT FURNISHED UNDER OTHER SECTIONS TO DETERMINE CONNECTION LOCATIONS AND REQUIREMENTS.

B. SEQUENCE ROUGH-IN OF ELECTRICAL CONNECTIONS TO COORDINATE WITH INSTALLATION AND START-UP OF EQUIPMENT FURNISHED UNDER OTHER SECTIONS.

PART 2 - PRODUCTS

2.01 SUBSTITUTIONS

A. WHERE SPECIFICATIONS LIST ONE OR MORE MANUFACTURERS AND DO NOT INCLUDE "OR APPROVED EQUAL", FURNISH MATERIALS MADE BY ONE OF MANUFACTURERS LISTED. WHERE "OR APPROVED EQUAL" IS INCLUDED, CONTRACTOR MAY SUBSTITUTE EQUAL PRODUCTS BY ANOTHER MANUFACTURER SUBJECT TO APPROVAL BY ENGINEER AND OWNER.

PART 3 - EXECUTION

3.01 INSTALLATION

A. MAKE ELECTRICAL CONNECTIONS TO UTILIZATION EQUIPMENT IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S INSTRUCTIONS.

B. DRAWINGS ARE DIAGRAMATIC AND SHALL NOT BE SCALED FOR EXACT SIZES OR LOCATIONS, THEY ARE NOT INTENDED TO DISCLOSE ABSOLUTE OR UNCONDITIONAL KNOWLEDGE OF ACTUAL FIELD CONDITIONS.

C. PROTECT WORK AND MATERIALS FROM DAMAGE BY WEATHER, ENTRANCE OF WATER AND DIRT. CAP CONDUIT DURING INSTALLATION. AVOID DAMAGE TO MATERIALS AND EQUIPMENT IN PLACE.

D. SATISFACTORILY REPAIR OR REMOVE AND REPLACE DAMAGED WORK WITH NEW MATERIALS. DELIVER EQUIPMENT AND MATERIALS TO JOB SITE IN ORIGINAL, UNOPENED, LABELED CONTAINERS. STORE FERROUS MATERIALS TO PREVENT RUSTING. STORE FINISHED MATERIALS AND EQUIPMENT TO PREVENT STAINING AND DISCOLORING.

E. TRENCHES SHALL BE EXCAVATED 6" BELOW ELEVATION OF BOTTOM OF CONDUIT.

F. FAILURE TO ROUTE CONDUIT THROUGH BUILDING WITHOUT INTERFERING WITH OTHER EQUIPMENT AND CONSTRUCTION SHALL NOT CONSTITUTE A REASON FOR AN EXTRA CHARGE. EQUIPMENT, CONDUIT AND FIXTURES SHALL FIT INTO AVAILABLE SPACES IN BUILDING AND SHALL NOT BE INTRODUCED INTO BUILDING AT SUCH TIMES AND MANNER AS TO CAUSE DAMAGE TO STRUCTURE. EQUIPMENT REQUIRING SERVICE SHALL BE READILY ACCESSIBLE.

3.02 TESTING AND EQUIPMENT SERVICING

A. MAKE TEST TO ENSURE THAT ENTIRE SYSTEM IS IN PROPER OPERATING CONDITION, AND THAT ADJUSTMENTS AND APPARATUS SETTING OF CIRCUIT BREAKERS, FUSES, CONTROL EQUIPMENT AND APPARATUS HAVE BEEN MADE. CORRECT DEFECTS DISCOVERED DURING TESTS.

3.03 REMOVAL OF DEBRIS

A. REMOVE SURPLUS MATERIALS AND DEBRIS CAUSED BY, OR INCIDENTAL TO, ELECTRICAL WORK. REMOVE SUCH DEBRIS AT FREQUENT INTERVALS. KEEP JOB CLEAN DURING CONSTRUCTION.

3.04 IDENTIFICATION OF EQUIPMENT

A. IDENTIFY ELECTRICAL DISTRIBUTION EQUIPMENT, DISCONNECTS, AND CONTACTORS WITH BLACK LAMINATED PLASTIC NAME-PLATES, ATTACHED WITH TWO SCREWS, ENGRAVED WITH 1/4" HIGH, WHITE LETTERS.

3.05 TEMPORARY LIGHTING AND POWER IN AREAS OF CONSTRUCTION

A. PROVIDE, MAINTAIN AND REMOVE AFTER CONSTRUCTION IS COMPLETED, TEMPORARY LIGHTING ADEQUATE FOR WORKMAN SAFETY AND TEMPORARY POWER FOR ALL TRADES INCLUDING ANY 3 PHASE POWER REQUIRED.

B. PROVIDE AND MAINTAIN BARRICADE LIGHTING WHERE REQUIRED TO ADEQUATELY PROTECT OWNER AGAINST LIABILITY FOR DAMAGE TO PUBLIC OR PERSONNEL. ALL LAMPS USED IN BARRICADE SHALL BE 60 WATT RED, INSTALLED IN WEATHERPROOF SOCKET WITH WIRE GUARD. ALL WIRING SHALL BE APPROVED FOR WEATHERPROOF INSTALLATION.

3.06 GUARANTEE-WARRANTY

A. GUARANTEE WORK TO BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF BUILDING. REPAIR AND REPLACE DEFECTIVE WORK AND OTHER WORK DAMAGED THEREBY WHICH BECOMES DEFECTIVE DURING TERM OF GUARANTEE-WARRANTY. FURNISH OWNER WITH THREE WRITTEN COPIES OF GUARANTEE-WARRANTY.

SECTION 16111 - RACEWAYS AND CONDUIT SYSTEMS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS

A. RIGID IMC, AND EMT CONDUIT SHALL BE HOT-DIPPED, GALVANIZED, OR ELECTROGALVANIZED STEEL BY ALLIED, REPUBLIC, TRIANGLE, WHEATLAND, OR APPROVED EQUAL.

B. PVC CONDUIT SHALL BE CARLON, SCHEDULE 40, 90 DEGREES C. RATED, UNLESS OTHERWISE NOTED.

C. MC CABLE SHALL BE MANUFACTURED BY AFC CABLE SYSTEMS OR APPROVED EQUAL. TYPE "AC-90" IS NOT ALLOWED. ALL MC CABLES SHALL HAVE A GREEN EQUIPMENT GROUND CONDUCTOR AND AND ISOLATED GROUND (GREEN + YELLOW STRIPE) CONDUCTOR. CABLES FOR DATA SYSTEMS POWER CIRCUITS SHALL BE AS SPECIFIED ON PLANS.

D. ASSOCIATED COUPLINGS, CONNECTORS AND FITTINGS SHALL BE STEEL AS MANUFACTURED BY RACO OR EQUIVALENT. CATALOG NUMBERS USED BELOW ARE THOSE OF RACO.

E. ERICKSON COUPLINGS, SERIES 1502, SHALL BE USED WHERE NEITHER LENGTH OF CONDUIT CAN BE ROTATED.

F. INSULATED BUSHINGS SHALL BE SERIES 1402.

G. EMT BOX CONNECTORS SHALL BE COMPRESSION FITTINGS.

H. CONDUIT, CONNECTORS, COUPLINGS AND FITTINGS SHALL BE UL LISTED AND LABELED.

1.02 ELECTRICAL METALLIC TUBING (EMT)

A. USE ELECTRIC METALLIC TUBING (EMT) WHERE DRAWINGS CALL FOR CONDUIT TO BE:

1. CONCEALED IN WALLS.
2. INSTALLED ABOVE SUSPENDED CEILINGS.
3. INSTALLED EXPOSED, ABOVE 6 FEET.

1.03 INTERMEDIATE METAL CONDUIT (IMC)

A. USE INTERMEDIATE METAL CONDUIT (IMC) WHERE DRAWINGS CALL FOR CONDUIT TO BE:

1. INSTALLED FOR PANELBOARD FEEDERS.
2. INSTALLED IN WET LOCATIONS (INTERIOR AND EXTERIOR).
3. INSTALLED EXPOSED BELOW 6 FEET.

1.04 POLYVINYL CHLORIDE (PVC) RACEWAY

A. USE PVC RACEWAY FOR:

1. UNDERGROUND SERVICE ENTRANCE CONDUITS FOR TELEPHONE AND POWER.
2. EXTERIOR BRANCH CIRCUITS INSTALLED UNDERGROUND.
3. INTERIOR BRANCH CIRCUIT CONDUITS INSTALLED IN CONCRETE SLAB ON GROUND FLOOR.

1.05 RIGID STEEL CONDUIT (RSC)

A. USE RIGID STEEL CONDUIT FOR:

1. INSTALL UNDERGROUND FOR POWER SERVICE ENTRANCE ELBOWS PENETRATING FLOOR SLAB.
2. EXPOSED TO PHYSICAL DAMAGE.

1.06 FLEXIBLE METAL CONDUIT

A. PROVIDE FLEXIBLE METAL CONDUIT FOR TERMINATION AT EQUIPMENT SUBJECT TO MOTION AND VIBRATION.
B. LENGTH SHALL NOT EXCEED 6 FEET IN ACCESSIBLE CEILING AREAS.
C. SHALL NOT BE CONCEALED IN WALLS.
D. WHERE EXPOSED TO CONTINUOUS OR INTERMITTENT MOISTURE, CONDUIT SHALL BE UL TYPE EF LIQUID TIGHT.
E. FOR CONNECTION TO CEILING MOUNTED LIGHTING FIXTURES FROM OUTLET BOXES.

1.07 MC (METAL-CLAD) CABLE

A. MC CABLE MAY BE USED, CONCEALED ABOVE CEILING AND IN WALLS, WHEN ALLOWED BY LOCAL CODES AND ARTICLE 330 OF THE NATIONAL ELECTRICAL CODE FOR THE CONNECTION OF THE POINT OF SALES SYSTEM EQUIPMENT ONLY.

PART 2 - EXECUTION

2.01 INSTALLATION

A. MINIMUM SIZE OF CONDUITS SHALL BE 1/2" INCH.
B. RUN CONCEALED CONDUITS IN DIRECT LINE WITH LONG SWEEP BENDS OR OFFSETS. RUN EXPOSED CONDUITS PARALLEL TO AND AT RIGHT ANGLES TO BUILDING LINES. GROUP MULTIPLE CONDUIT RUNS IN BANKS.
C. CAP ENDS OF CONDUITS TO PREVENT ENTRANCE OF WATER AND OTHER FOREIGN MATERIAL DURING CONSTRUCTION.
D. PROVIDE NO. 12 AWG COPPER PULL WIRES OR NYLON CORD IN ALL EMPTY CONDUITS. STEEL WIRE NOT ACCEPTABLE AS PULL WIRE.
E. WHERE IMC CONDUIT ENTERS A CABINET, JUNCTION BOX, OR PULL BOX CONDUCTORS SHALL BE PROTECTED BY AN INSULATED BUSHING. LOCKNUTS SHALL BE INSTALLED ON CONDUIT OUTSIDE AND INSIDE ENCLOSURE.
F. IN AREAS WHERE ENCLOSED AND GASKETED FIXTURES AND WEATHERPROOF DEVICES ARE SPECIFIED, WHERE RIGID CONDUIT ENTERS A SHEET METAL ENCLOSURE, JUNCTION BOX AND OUTLET BOX, AND NOT TERMINATED IN A THREADED HUB, A STEEL, OR MALLEABLE IRON NYLON INSULATED HUB, COMPLETE WITH RECESSED SEALING "O" RING OR SEALING LOCKNUT SHALL BE USED.
G. PROVIDE SEAL-OFF FITTING IN ALL CONDUITS ENTERING A COLD TEMPERATURE AREA SUCH AS FREEZERS AND DRY REFRIGERATORS.
H. IN CONCRETE SLABS, BLOCK UP CONDUIT FROM FORMS AND SECURELY FASTEN IN PLACE. ALL CONDUITS IN SLABS SHALL HAVE A MINIMUM OF 4" INCHES CONCRETE COVERAGE ABOVE.
I. FAILURE TO ROUTE CONDUIT THROUGH BUILDING WITHOUT INTERFERING WITH OTHER EQUIPMENT, AND CONSTRUCTION SHALL NOT CONSTITUTE A REASON FOR AN EXTRA CHARGE. EQUIPMENT, CONDUIT, AND FIXTURES SHALL FIT INTO AVAILABLE SPACES IN BUILDING AND SHALL NOT BE INTRODUCED INTO BUILDING AT SUCH TIMES AND MANNER AS TO CAUSE DAMAGE TO STRUCTURE OR EQUIPMENT. EQUIPMENT REQUIRING SERVICING SHALL BE READILY ACCESSIBLE.

2.02 EMT (ELECTRICAL METALLIC TUBING) RACEWAY

A. DO NOT USE ELECTRIC METALLIC TUBING IN CINDER CONCRETE OR CINDER FILL OR WHERE CONDUIT SYSTEM IS IN CONTACT WITH DISSIMILAR METALS OR IN WET LOCATIONS.

2.03 PVC RACEWAY

A. USE THREADED FITTINGS FOR ALL CONNECTORS AND ADAPTERS.
B. PROVIDE 1/4-INCH NYLON PULL ROPE IN ALL PRIMARY POWER AND INCOMING TELEPHONE SERVICE ENTRANCE CONDUITS.
C. NO EXTERIOR PVC SHALL EMERGE FROM THE GROUND OR THE CONCRETE SLAB OR ENCASEMENT. EXTERIOR PVC CONDUIT SHALL CONVERT TO GALVANIZED RIGID METAL PRIOR TO ITS EMERGENCE.

2.04 FLEXIBLE METAL CONDUIT

A. WHERE FITTINGS FOR LIQUID TIGHT FLEXIBLE CONDUIT ARE BROUGHT INTO AN ENCLOSURE WITH A KNOCK-OUT, A GASKET ASSEMBLY, CONSISTING OF ONE PIECE "O" RING, WITH BUNA-N SEALING MATERIAL, SERIES 3400, SHALL BE INSTALLED ON OUTSIDE OF BOX. FITTINGS SHALL BE MADE OF EITHER STEEL OR MALLEABLE IRON ONLY, AND SHALL HAVE INSULATED THROATS OR INSULATED BUSHINGS.
B. IN DRY LOCATIONS, WHERE FINAL CONNECTIONS TO MOTORS AND OTHER EQUIPMENT MAY BE MADE WITH FLEXIBLE METAL CONDUIT, FITTINGS SHALL BE OF STEEL OR MALLEABLE IRON ONLY WITH INSULATED THROATS OR INSULATED BUSHINGS, AND SHALL BE OF WEDGE AND SCREW TYPE HAVING AN ANGULAR WEDGE FITTING BETWEEN CONVOLUTIONS OF CONDUIT.

SECTION 16123 - CONDUCTORS

PART 1 - PRODUCTS

1.01 CONDUCTORS

A. PROVIDE 98% CONDUCTIVITY COPPER CONDUCTORS WITH 600-VOLT INSULATION. FOR CONDUCTORS NO. 12 AWG AND NO. 10 AWG, PROVIDE SOLID TYPE. FOR ALL CONDUCTORS NO. 8 AWG AND LARGER, PROVIDE STRANDED TYPE. ALL CONDUCTORS SHALL HAVE THHN-THWN INSULATION UNLESS NOTED OTHERWISE.
B. CONDUCTORS SHALL BE MANUFACTURED BY TRIANGLE, AMERICAN, ROME, SOUTH-WIRE OR APPROVED EQUAL.
C. PROVIDE NO. 14 AWG TYPE THHN FIXTURE CONDUCTORS, FOR CONDUCTORS ENTERING FIXTURES.
D. BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG, COPPER.

PART 2 - EXECUTION

2.01 INSTALLATION

A. INSTALL PULL BOXES IN CIRCUITS OR FEEDERS OVER 100' LONG.
B. MAKE ALL SPLICES OR CONNECTIONS ONLY AT OUTLET, PULL OR JUNCTION BOXES.
C. ALL CONDUCTORS AND CONNECTIONS SHALL TEST FREE OF GROUNDS, SHORTS, AND OPENS PRIOR TO ENERGIZING CIRCUIT.
D. PROVIDE NO. 10 WIRE IN LIEU OF NO. 12 WIRE FOR ANY BRANCH CIRCUIT IN EXCESS OF 100' LINEAR LENGTH TO PREVENT EXCESSIVE VOLTAGE DROP.
E. USE IDEAL WING NUTS, SCOTCHLOK TYPE Y, R, G, OR B, OR APPROVED EQUIVALENT CONNECTORS FOR FIXTURE CONNECTIONS AT OUTLET BOXES.
F. MAKE FEEDER TAPS AND JOINTS WITH OZ TYPE T, PT, PM OR PTS, OR APPROVED EQUIVALENT CLAMP CONNECTORS AS MANUFACTURED BY KUPLER, OR WITH APPROVED COMPRESSION SLEEVES. WRAP CONNECTORS WITH NO. 10 ELECTRO-SEAL OR APPROVED EQUIVALENT PLASTIC FILLER AND VINYL TAPE.
G. LEAVE A MINIMUM OF 8" SLACK WIRE IN EVERY OUTLET BOX.
H. PROVIDE COLOR CODED WIRE AND WITH A DIFFERENT COLOR FOR EACH PHASE AND NEUTRAL AND GROUND AS FOLLOWS: PHASE A, B, C- BLACK, RED AND BLUE RESPECTIVELY, NEUTRAL- WHITE, ISOLATED GROUND- GREEN WITH YELLOW STRIPES. APPROVED COLOR TAPE IS ACCEPTABLE FOR FEEDERS USING LARGER THAN #6 CONDUCTORS.
I. ALL CONDUCTORS SHALL BE CONTINUOUS FROM ORIGIN TO PANEL OR EQUIPMENT TERMINATION WITH-OUT SPLICES WHERE POSSIBLE. WHERE SPLICES AND TAPS ARE NECESSARY OR ARE REQUIRED, THEY SHALL BE MADE IN SPLICE BOXES WITH SUITABLE CONNECTORS.

TIGHTEN ALL ELECTRICAL CONNECTORS AND TERMINALS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT INDICATED, TIGHTEN CONNECTORS AND TERMINALS TO COMPLY WITH TIGHTENING TORQUES SPECIFIED IN UL486A AND UL486B.

SECTION 16130 - OUTLET AND JUNCTION BOXES

PART 1 - GENERAL

1.01 PROJECT CONDITIONS

A. VERIFY FIELD MEASUREMENTS ARE AS SHOWN ON DRAWINGS.
B. VERIFY LOCATIONS OF FLOOR BOXES AND OUTLETS IN WORK AREAS PRIOR TO ROUGH-IN.

PART 2 - PRODUCTS

2.01 OUTLET BOXES

A. SHEET METAL OUTLET BOXES: GALVANIZED STEEL.
B. CAST BOXES: TYPE FS, CAST FERALLOY, PROVIDE GASKETED COVER BY BOX MANUFACTURER.
C. MANUFACTURERS: NATIONAL, APPLETON, GENERAL ELECTRIC, RACO, OR STEEL-CITY.
D. PROVIDE BOXES FOR FIXTURES WITH FIXTURE STUDS IN CENTER.
E. OUTLET BOXES FOR LIGHTING, SWITCHES AND RECEPTACLES IN INTERIOR AREAS WITH EXPOSED CONDUIT SHALL BE PRESSED STEEL AND IN EXTERIOR AREAS WITH EXPOSED CONDUIT SHALL BE CAST METAL WITH THREADED HUBS, "FS" TYPE. USE GALVANIZED STEEL FOR CONCEALED BOXES. BOXES SHALL BE 1-1/2" DEEP MINIMUM.

2.02 PULL AND JUNCTION BOXES

A. SHEET METAL BOXES: GALVANIZED STEEL.
B. SURFACE-MOUNTED CAST METAL BOX: TYPE 4, FLAT-FLANGED, SURFACE-MOUNTED JUNCTION BOX.
   1. MATERIAL: GALVANIZED CAST IRON.
   2. COVER: FURNISH WITH GROUND FLANGE, NEOPRENE GASKET, AND STAINLESS STEEL COVER SCREWS.
C. IN-GROUND CAST METAL BOX: INSIDE FLANGED, RECESSED COVER BOX FOR FLUSH MOUNTING.
   1. MATERIAL: GALVANIZED CAST IRON.
   2. COVER: NONSKID COVER WITH NEOPRENE GASKET AND STAINLESS STEEL COVER SCREWS.
   3. COVER LEGEND: ELECTRIC.
D. MANUFACTURERS: NATIONAL, APPLETON, GENERAL ELECTRIC, RACO, OZ-GEDNEY OR STEEL CITY.

PART 3 - EXECUTION

3.01 INSTALLATION

A. INSTALL ELECTRICAL BOXES AS SHOWN ON DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS AND COMPLIANCE WITH REGULATORY REQUIREMENTS.
B. INSTALL PULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS.
C. INACCESSIBLE CEILING AREAS: INSTALL OUTLET AND JUNCTION BOXES NO MORE THAN 6 INCHES FROM CEILING ACCESS PANEL OR FROM REMOVABLE RECESSED LIGHT FIXTURE.
D. USE FLUSH MOUNTING OUTLET BOXES IN FINISHED AREAS.
E. USE STAMPED STEEL BRIDGES TO FASTEN FLUSH MOUNTING OUTLET BOX BETWEEN STUDS.
F. INSTALL FLUSH MOUNTED BOX WITHOUT DAMAGING WALL INSULATION OR REDUCING ITS EFFECTIVENESS.
G. USE ADJUSTABLE STEEL CHANNEL FASTENERS FOR HUNG CEILING OUTLET BOX.
H. DO NOT FASTEN BOXES TO CEILING SUPPORT WIRES.
I. SUPPORT BOXES INDEPENDENTLY OF CONDUIT, EXCEPT CAST BOX THAT IS CONNECTED TO TWO RIGID METAL CONDUITS BOTH SUPPORTED WITHIN 12 INCHES OF BOX.
J. USE GANG BOX WHERE MORE THAN ONE DEVICE IS MOUNTED TOGETHER. DO NOT USE SECTIONAL BOX.
K. USE GANG BOX WITH PLASTER RING FOR SINGLE DEVICE OUTLETS.
L. USE CAST OUTLET BOX IN EXTERIOR LOCATIONS AND WET LOCATIONS.

3.02 OUTLET BOXES

A. SELECT BOXES ACCORDING TO INTENDED USE AND TYPE OF OUTLET. CEILING OUTLET BOXES SHALL BE 4" OCTAGON AND 1-1/2" DEEP. USE 2-1/8" DEEP OCTAGON BOXES OR 4" SQUARE BOXES REQUIRED. ALL CEILING OUTLET BOXES SHALL HAVE A FIXTURE STUD OF NO BOLT SELF-LOCKING TYPE INSTALLED IF REQUIRED TO HANG THE FIXTURE SPECIFIED AT THE OUTLET.

3.03 JUNCTION BOXES

A. JUNCTION BOXES SHALL BE SIZED ACCORDING TO NUMBER OF CONDUCTORS IN BOX OR TYPE OF SERVICE TO BE PROVIDED. MINIMUM JUNCTION BOX SIZE 4-11/16" SQUARE AND 2-1/8" DEEP. PROVIDE SCREW COVERS FOR JUNCTION BOXES.
B. USE CODE GAUGE STEEL WITH SCREW COVERS FOR PULL BOXES WITH PRIME COAT AND PROVIDE WITH SCREW COVER. SIZE PULL BOXES ACCORDING TO THE NEC.
C. PROVIDE PULL BOX EVERY 100' OF CONDUIT RUN OR WHERE EXCESSIVE NUMBER OF BENDS NECESSITATES A BOX FOR EASE OF WIRE INSTALLATION.

SECTION 16141 - WIRING DEVICES AND PLATES

PART 1 - PRODUCTS

1.01 WALL SWITCHES

A. SHALL BE PURCHASED FROM THE NATIONAL ACCOUNTS PROVIDER INDICATED ON THE PLANS.
B. RATINGS: 20 AMPS, 120/277 VOLTS A.C. OR AS IDENTIFIED ON DRAWINGS.
C. DEVICES: (COOPER CATALOG NUMBERS ARE LISTED UNLESS NOTED OTHERWISE)
   1. SINGLE POLE TOGGLE SWITCHES:
      20 AMP IVORY DEVICE - #1221-IV
      20 AMP PILOT LIGHTS ILLUMINATED WITH LOAD ON - #2221-PL
   2. DOUBLE POLE TOGGLE SWITCHES: 20 AMP IVORY DEVICE- #2222-I

1.02 RECEPTACLES

A. SHALL BE PURCHASED FROM THE NATIONAL ACCOUNTS PROVIDER INDICATED ON THE PLANS.
B. DEVICES: (COOPER CATALOG NUMBERS ARE LISTED UNLESS OTHERWISE NOTED)
   1. SPECIFICATION GRADE DEVICES (GREY IN PUBLIC DINING, OTHERWISE IVORY) TO BE 20 AMP, 125 VOLTS, A.C. RECEPTACLES:
      SINGLE DEVICE: #5361-V
      DUPLEX DEVICE: #CR20-I, CR20-GY
      ISOLATED GROUND DUPLEX DEVICE: IG5362-RN (ORANGE)
      GF (GROUND-FAULT CIRCUIT INTERRUPTER) DUPLEX DEVICE: GF20-V

1.03 SPECIAL DEVICES:

A. MANUAL MOTOR STARTER SWITCH: SQ. D CLASS 2510, TYPE F, FOR USE ON MOTORS UP TO 3/4 HORSEPOWER. PROVIDE NEMA 1 ENCLOSURE IN DRY LOCATIONS, PROVIDE NEMA 3R ENCLOSURE IN WET OR EXTERIOR LOCATIONS.

1.04 WALL PLATES

A. PROVIDE ARROW-HART, OR APPROVED EQUAL, SMOOTH SATIN STAINLESS STEEL 302-SS SERIES FOR SWITCHES AND RECEPTACLES.
B. PROVIDE BLANK PLATES ON ALL OUTLET BOXES FOR FUTURE OUTLETS, OR OUTLETS WITHOUT DEVICES. PLATE STYLE SHALL MATCH DEVICE PLATES.
C. PROVIDE DIE CAST ALUMINUM WP-SERIES WEATHERPROOF PLATE FOR DUPLEX GF RECEPTACLES LOCATED OUTSIDE OR IN WET LOCATIONS.
D. WHERE DEVICES ARE INSTALLED IN EXPOSED BOXES OR CONDUIT FITTINGS, PROVIDE PROPERLY DESIGNED PLATES AND COVERS EQUAL TO ARROW-HART RS-SERIES EXPOSED WORK COVERS.
E. INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS, ABOVE ACCESSIBLE CEILINGS, AND ON SURFACE-MOUNTED BOXES.

PART 2 - EXECUTION

2.01 INSTALLATION

A. MOUNTING
   1. MOUNT SWITCHES AND RECEPTACLES AT HEIGHT ABOVE FINISHED FLOOR AS INDICATED ON PLANS, AND LEGEND.
   2. MOUNT SWITCHES ON STRIKE SIDE OF DOOR MAXIMUM 8" FROM DOOR FRAME. OUTLET BOX FOR SWITCH SHALL BE LOCATED CLEAR OF DOOR FRAME. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
   3. INSTALL SWITCHES WITH OFF POSITION DOWN.
   4. DO NOT USE THE FEED THRU FEATURE FOR THE GF TYPE RECEPTACLE, UNLESS REQUIRED BY THE PLANS.
   5. USE JUMBO SIZED PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS.
   6. EACH RECEPTACLE SHALL BE PROVIDED WITH A #12 GREEN GROUNDING JUMPER BETWEEN THE GROUND TERMINAL OF THE RECEPTACLE AND THE OUTLET BOX.
   7. THE GROUNDING CONDUCTOR TO EACH RECEPTACLE SHALL BE INSTALLED SUCH THAT THE REMOVAL OF THE DEVICE WILL NOT INTERFERE WITH THE CONTINUITY OF THE GROUND.
B. TESTING
   1. TEST EACH SWITCH AND VERIFY PROPER OPERATION WITH ENERGIZED CIRCUIT.
   2. TEST EACH RECEPTACLE FOR PROPER POLARITY ON ENERGIZED CIRCUIT.
   3. TEST EACH GF RECEPTACLE WITH A GF RECEPTACLE TESTER AND VERIFY CIRCUIT IS OPENED BY GF DEVICE AT AMPERE RANGES ESTABLISHED BY THE MANUFACTURER.

FOR CONSTRUCTION
NOT FOR CONSTRUCTION
FOR CONSTRUCTION

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Revisions:

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SHEET TITLE
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1 ELECTRICAL SPECIFICATIONS (CONTINUED)

SECTION 16170 - GROUNDING AND BONDING

PART 1 - PRODUCTS

1.01 ROD ELECTRODES

A. MATERIAL: COPPER-CLAD STEEL.

B. DIAMETER: 3/4 INCH.

C. LENGTH: 10 FEET.

1.02 MECHANICAL CONNECTORS

A. MATERIAL: BRONZE.

1.03 GROUNDING CONDUCTOR (WIRE)

A. MATERIAL: STRANDED COPPER, SIZED TO MEET NFPA 70, ARTICLE 250 REQUIREMENTS.

PART 2 - EXECUTION

2.01 INSTALLATION

A. INSTALL ROD ELECTRODES AT LOCATIONS INDICATED. INSTALL ADDITIONAL ROD ELECTRODES AS REQUIRED TO ACHIEVE RESISTANCE TO GROUND OF LESS THAN 25 OHMS.

B. PROVIDE GROUNDING ELECTRODE CONDUCTOR AND CONNECT TO REINFORCING STEEL IN FOUNDATION FOOTING.

C. PROVIDE BONDING TO MEET REGULATORY REQUIREMENTS.

D. BOND TOGETHER EACH METALLIC RACEWAY, PIPE, DUCT AND OTHER METAL OBJECTS.

E. PROVIDE ISOLATED GROUNDING CONDUCTOR FOR CIRCUITS SUPPLYING ALL ISOLATED GROUND OUTLETS. INSULATION SHALL BE GREEN WITH YELLOW STRIPE. SIZE PER NEC TABLE 250.95. THIS ISOLATED GROUNDING CONDUCTOR SHALL RUN IN ADDITION TO EQUIPMENT GROUNDING CONDUCTOR AND ALONG WITH THE BRANCH CIRCUIT CONDUCTORS.

2.02 GROUNDING

A. GROUND ELECTRICAL SYSTEM IN ACCORDANCE WITH ARTICLE 250, NATIONAL ELECTRICAL CODE, AND LOCAL AUTHORITIES HAVING JURISDICTION.

B. INSTALL A #3/0 BARE COPPER WIRE BOND ACROSS THE WATER METER, SAME TO BE ATTACHED TO GROUND CLAMPS ON WATER LINE ON EACH SIDE OF METER. ARRANGEMENTS SHALL BE MADE TO DO THIS WORK AT THE TIME THE WATER METER IS INSTALLED.

C. FROM THE POINT OF ENTRANCE OF THE WATER MAIN INTO THE BUILDING AND ON THE METER SIDE OF THE MAIN INSIDE WATER VALVE AND UNION INSTALL A STRANDED COPPER CABLE #3/0 IN 1-1/4" CONDUIT TO THE MAIN DISTRIBUTION PANEL. CONNECT THE CABLE TO THE EQUIPMENT GROUND BUS.

D. INSTALL A GREEN EQUIPMENT GROUNDING CONDUCTOR IN EACH RACEWAY, SIZED PER N.E.C. TABLE 250-122. TERMINATE ON EQUIPMENT GROUND BUS WITHIN PANELBOARD SERVING LOAD.

E. INSTALL #6 AWG COPPER GROUNDING CONDUCTOR FROM GROUND BAR IN MAIN TELEPHONE BOX TO GROUNDED NEUTRAL BUS IN MAIN DISTRIBUTION PANEL.

F. ALL SEPARATE GROUNDING ELECTRODE CONDUCTORS SHALL BE BONDED TOGETHER TO LIMIT POTENTIAL DIFFERENCES BETWEEN THEM AND BETWEEN THEIR ASSOCIATED WIRING SYSTEMS. THIS INCLUDES THE POWER SYSTEM, TELEPHONE SYSTEM, ETC.

2.03 FIELD QUALITY CONTROL

A. INSPECT GROUNDING AND BONDING SYSTEM CONDUCTORS AND CONNECTIONS FOR TIGHTNESS AND PROPER INSTALLATION.

SECTION 16190 - SUPPORTING DEVICES AND HANGERS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS

A. SUPPORTING DEVICES AND HANGERS SHALL BE MANUFACTURED BY RAYCO FASTENERS.

PART 2 - EXECUTION

2.01 INSTALLATION

B. SECURE CONDUITS TO WITHIN 3' OF EACH OUTLET BOX, JUNCTION BOX, CABINET, FITTING, ETC., AND AT INTERVALS NOT TO EXCEED TEN FEET (10') AND IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. IN SEISMIC ZONES, SUPPORT CONDUITS 1" AND UNDER AT 6' INTERVALS.

C. INSTALL CLAMPS SECURED TO STRUCTURE FOR FEEDER AND OTHER CONDUITS ROUTED AGAINST THE STRUCTURE. USE DROP RODS AND HANGERS OR RACKS TO SUPPORT CONDUITS RUN APART FROM THE STRUCTURE.

D. PROVIDE AND INSTALL SUITABLE ANGLE IRON, CHANNEL IRON OR STEEL METAL FRAMING WITH ACCESSORIES TO SUPPORT OR BRACE ELECTRICAL EQUIPMENT INCLUDING SAFETY SWITCHES, FIXTURES, PANELBOARDS, ETC.

E. USE OF CHAINS, PERFORATED IRON, BALING WIRE, OR TIE WIRE FOR SUPPORTING CONDUIT RUNS IS NOT PERMITTED.

F. FOR SUPPORT OF LOW VOLTAGE WIRING NOT REQUIRED TO BE IN CONDUIT, BUNDLE CABLES TOGETHER IN A NEAT MANNER USING APPROVED NYLON TIE WRAPS. BUNDLED CABLES SHALL BE SUPPORTED WITH "J" HOOKS ON TELEPHONE TYPE BRIDLE RINGS, A MINIMUM OF 5 FEET ON CENTERS. CLEARLY IDENTIFY ALL DIFFERING TYPES OF CABLES BEING RUN AND TAG WITH TAPE TAGS REGARDING TELEPHONE, PAR, MUSIC/COMMUNICATION, SECURITY, ETC. FOR VARIOUS SYSTEM UTILIZING SAID CABLE. IDENTIFICATION TAPE SHALL BE PROVIDED AT MINIMUM INTERVALS OF 25 FEET ON CENTER AND WITHIN EACH BUILDING SPACE.

G. PROVIDE A SYSTEM OF SUPPORTING DEVICES AND HANGERS TO INSURE SECURE SUPPORT OR BRACING FOR CONDUIT, ELECTRICAL EQUIPMENT, INCLUDING SAFETY SWITCHES, FIXTURES, PANELBOARDS, OUTLET BOXES, JUNCTION BOXES, CABINETS, ETC.

SECTION 16421 - UTILITY SERVICE ENTRANCE AND DISTRIBUTION SYSTEM

PART 1 - GENERAL

1.01 SYSTEM DESCRIPTION

A. THE UNDERGROUND ELECTRICAL SYSTEM SERVICE CHARACTERISTICS SHALL BE 208Y/120 VOLTS, THREE PHASE, FOUR WIRE SERVICE SHALL EXTEND FROM UTILITY COMPANY TRANSFORMER SECONDARY.

B. METERING OF ELECTRICAL USAGE SHALL BE LOCATED AS REQUIRED BY LOCAL ELECTRICAL UTILITY COMPANY. COORDINATE REQUIREMENTS WITH LOCAL UTILITY COMPANY.

C. DISTRIBUTION SYSTEM ORIGINATES AT SECONDARY OF UTILITY TRANSFORMER AND INCLUDES SERVICE ENTRANCE CONDUIT AND CONDUCTORS, DISTRIBUTION EQUIPMENT, LIGHTING PANELBOARDS, UTILIZATION EQUIPMENT, OVERCURRENT DEVICES, DISCONNECTING MEANS, CONTROLS, BRANCH AND FEEDER CIRCUITS, ETC.

PART 2 - PRODUCTS

2.01 MATERIALS

A. FURNISH SERVICE ENTRANCE CONDUIT, CABLE, AND MISCELLANEOUS HARDWARE AS REQUIRED BY PLANS AND SPECIFICATIONS FOR ELECTRICAL SERVICE ENTRANCE AND SYSTEM GROUNDING AT MAIN ELECTRICAL SERVICE.

PART 3 - EXECUTION

3.01 EXAMINATION AND PREPARATION

A. COORDINATE EXACT LOCATIONS OF ELECTRICAL SERVICE UTILITY TRANSFORMER, METERING EQUIPMENT, SERVICE LATERAL, ETC. PRIOR TO COMMENCEMENT OF INSTALLATION. CONTACT ENGINEER WITH CONFLICTS PRIOR TO BID.

B. ENSURE PAD MOUNTED TRANSFORMER IS NOT LOCATED WITHIN ROADWAY OR SIDEWALK.

C. COORDINATE WITH LOCAL ELECTRICAL UTILITY FOR ALL UTILITY COMPANY REQUIREMENTS AND PROVIDE FOR THE FOLLOWING ITEMS AND ANY OTHERS REQUIRED BY THE UTILITY:

1. CONCRETE PAD FOR UTILITY TRANSFORMER WITH REQUIRED DIMENSIONS AND DETAILS.
2. PRIMARY UNDERGROUND CONDUIT, EXCAVATION, AND BACKFILL REQUIREMENTS.
3. PAY FOR ALL FEES ASSOCIATED WITH ESTABLISHMENT OF ELECTRICAL SERVICE. PROPER SIZING AND RATING OF UTILITY TRANSFORMER BY THE UTILITY.
4. FURNISH LIST OF LOADS TO THE ELECTRICAL UTILITY COMPANY SERVING THE FACILITY.
5. VERIFY THAT UTILITY COMPANY CLEARANCES ARE PROVIDED ON ALL SIDES OF UTILITY EQUIPMENT.

D. ENSURE PROPER ACCESS TO UTILITY EQUIPMENT IS MAINTAINED.

E. PROVIDE PULL ROPE, EXCAVATION IN ACCORDANCE WITH ELECTRICAL UTILITY COMPANY REQUIREMENTS, BACKFILL AND CONCRETE ENVELOPE FOR PRIMARY IN ACCORDANCE WITH ELECTRICAL UTILITY COMPANY REQUIREMENTS. TURN CONDUITS UP RISER POLE AS REQUIRED. CAP SPARE CONDUITS 12 INCHES ABOVE GRADE WITH PLUMBERS PIPE CAP.

F. PROVIDE SECONDARY LUGS ON UTILITY TRANSFORMER AND PERFORM DRILLING AND INSTALLATION OF LUGS IN ACCORDANCE WITH UTILITY REQUIREMENTS. TYPE OF LUGS SHALL BE IN ACCORDANCE WITH ELECTRICAL UTILITY COMPANY REQUIREMENTS. CONNECT SERVICE CONDUCTOR TO TRANSFORMER SECONDARY LUGS AS DIRECTED BY ELECTRICAL UTILITY.

SECTION 16441 - ENCLOSED SWITCHES

PART 1 - PRODUCTS

1.01 MANUFACTURERS

A. SQUARE D.

B. GENERAL ELECTRIC.

C. CUTLER-HAMMER.

1.02 ENCLOSED SWITCHES

A. NONFUSIBLE SWITCH ASSEMBLIES: NEMA KS 1, TYPE: GENERAL DUTY FOR 208 VOLT LOAD INTERRUPTER ENCLOSED KNIFE SWITCH WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED TO PREVENT OPENING FRONT COVER WITH SWITCH IN ON POSITION. HANDLE LOCKABLE IN OFF POSITION. PROVIDE EQUIPMENT GROUND LUG IN EACH SWITCH.

B. ENCLOSURES: NEMA KS 1.

1. INTERIOR DRY LOCATIONS: TYPE 1.
2. EXTERIOR LOCATIONS: TYPE 3R.

SECTION 16470 - PANELBOARDS

PART 1 - PRODUCTS

1.01 MANUFACTURER

A. SUNCOAST ENVIRONMENTAL CONTROLS (THRU A NATIONAL ACCOUNT PROGRAM)

1.02 PANELBOARD FEATURES

A. PANELBOARDS SHALL HAVE A MINIMUM SYMMETRICAL INTERRUPTING RATING TO MEET OR EXCEED THE AVAILABLE SYMMETRICAL INTERRUPTING FAULT CURRENT AT THE DEVICE INTENDED TO INTERRUPT CURRENT.

B. BUS BARS SHALL BE COPPER OR TIN PLATED ALUMINUM.

C. PROVIDE FACTORY-INSTALLED COPPER GROUND BUS IN EACH PANELBOARD WITH LUGS OR CONNECTORS ON BAR.

D. PROVIDE ELECTRICALLY ISOLATED, FACTORY INSTALLED, NEUTRAL BUS IN EACH 3 PHASE, 4 WIRE OR 1 PHASE 3 WIRE PANELBOARD.

E. IN ADDITION TO THE GROUND BUS REQUIRED BY PARAGRAPH 1.02D, PROVIDE FACTORY INSTALLED, ELECTRICALLY ISOLATED, COPPER GROUND BUS IN EACH PANELBOARD SERVING ISOLATED GROUND RECEPTACLES.

F. MAIN LUGS AND MAIN CIRCUIT BREAKER LUGS SHALL BE UL LISTED FOR USE WITH BOTH ALUMINUM AND COPPER CONDUCTORS.

G. PROVIDE PANELBOARD DOORS WITH CHROME-PLATED LOCKS AND CATCHES. ALL LOCKS SHALL BE KEYED ALIKE. PROVIDE TWO KEYS FOR EACH LOCK.

H. PROVIDE THERMAL-MAGNETIC CIRCUIT BREAKERS WHICH ARE RATED FOR 40 DEGREES C AMBIENT TEMPERATURE. BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK TYPE TRIP WITH TRIP INDICATION SHOWN BY HANDLE POSITION OTHER THAN ON OR OFF. MULTI-POLE BREAKERS SHALL HAVE A COMMON TRIP HANDLE. TANDEM TYPE CIRCUIT BREAKERS SHALL NOT BE PERMITTED.

I. PROVIDE TYPED DIRECTORY CARD WITH CLEAR HOLDER FOR EACH PANELBOARD.

PART 2 - EXECUTION

2.01 INSTALLATION

A. PANELBOARDS SHALL BE MOUNTED AT HEIGHT ABOVE FINISHED FLOOR SUCH THAT THE HEIGHT OF THE TOP-MOST BREAKER IN THE PANEL IS NOT MORE THAN 6-1/2 FEET ABOVE FINISHED FLOOR IN ITS HIGHTEST POSITION PER THE NEC.

B. WHERE MULTIPLE PANELBOARDS ARE INSTALLED ON WALLS IN COMMON AREAS OF BUILDINGS, THE PANELBOARDS SHALL BE INSTALLED WITH THE TOP OF ALL PANELBOARDS AT THE SAME HEIGHT.

C. PROVIDE BLANK FILLER PLATES OVER ALL UNUSED SPACES IN PANELBOARDS.

D. A TYPED DIRECTORY CARD SHALL INDICATE DEVICES BEING SERVED AND THE SPACE NAME WHERE THE DEVICE IS LOCATED.

E. PROVIDE MINIMUM OF ONE (1) 3/4" EMPTY SPARE CONDUIT FOR EVERY 3 POLES OF SPARE BREAKER OR SPACE IN THE PANELBOARD. STUB CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. LABEL CONDUIT AS SPARE AT PANELBOARD AND TERMINATION POINT.

F. NON-ISOLATED GROUND BARS SHALL BE GROUNDED TO PANELBOARD CAN AND MAIN SERVICE ENTRANCE GROUND BUS WITH A CODE SIZED GROUNDING CONDUCTOR INSTALLED IN THE SAME CONDUIT AS THE PHASE AND NEUTRAL CONDUCTORS.

G. CIRCUITS USING A COMMON NEUTRAL SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

H. INSPECT EACH PANELBOARD FOR PROPER INSTALLATION, PHYSICAL DAMAGE, TIGHTNESS AND INSTALLATION OF OVERCURRENT DEVICES. VERIFY PROPER COLOR CODING OF CONDUCTORS. CORRECT OR REPAIR ALL ITEMS FOUND IN INSPECTION.

I. NEUTRAL WIRES, GROUND WIRES, AND ISOLATED GROUND WIRES SHALL BE CONNECTED TO THE APPROPRIATE PANEL BUS BAR. DO NOT MIX BUS WIRE CONNECTIONS.

SECTION 16500 - LIGHTING FIXTURES

PART 1 - GENERAL

1.01 ACCEPTABLE MANUFACTURERS

A. AS INDICATED ON LIGHTING FIXTURE SCHEDULE, ALL FIXTURES TO BE PURCHASED FROM LIGHTING ASSOCIATES THRU A NATIONAL ACCOUNT.

B. BALLASTS TO BE ADVANCE MARK III ENERGY SAVING ELECTROMAGNETIC BALLAST OR EQUAL BY:

JEFFERSON

UNIVERSAL

C. LAMPS

OSRAM-SYLVANIA

NORTH AMERICAN PHILIPS

GENERAL ELECTRIC

1.02 FIXTURE REQUIREMENTS

A. PROVIDE REGULATING, HPF BALLASTS IN ALL HID LIGHTING FIXTURES. HID LAMP TYPES SHALL BE AS SHOWN IN PHOTOMETRIC TEST DATA.

B. PROVIDE CLASS "P," UL LABELED, HPF, ENERGY SAVING BALLASTS IN ALL FLUORESCENT LIGHTING FIXTURES. RECESSED FLUORESCENT LIGHTING FIXTURE BALLASTS SHALL BE PROVIDED WITH INTEGRAL THERMAL PROTECTION.

C. PROVIDE RAPID START LAMPS FOR ALL FLUORESCENT FIXTURES.

D. ALL LAMPS AND BALLASTS SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NATIONAL ENERGY POLICY ACT OF 1992.

E. ALL COMPONENTS OF RECESSED FIXTURES SHALL BE ACCESSIBLE WITHOUT DISTURBING FIXTURE IN OR ON CEILING.

F. ENERGY SAVING BALLASTS AND ENERGY SAVING LAMPS PROVIDED SHALL BE COMPATABLE FOR OPERATION TOGETHER.

G. EXTERIOR FIXTURES AND POLES SHALL BE SUITABLE FOR EXTERIOR USE, SHALL BE UL. LISTED, AND SHALL BE A STANDARD DESIGN FOR EXTERIOR APPLICATION.

H. EXTERIOR POLES FOR FIXTURES WITH LUMINAIRES INSTALLED SHALL BE DESIGNED FOR MAXIMUM CONSTANT VELOCITY WIND LOAD WITH LUMINAIRES INSTALLED, APPLICABLE TO THE GEOGRAPHIC AREA.

1.03 CONTROLS

A. LIGHTING CONTACTORS SHALL BE CUTLER-HAMMER OF TYPES AND QUANTITY SHOWN ON DRAWINGS, EXCEPT THOS FURNISHED WITH THE SWITCHGEAR AS PART OF THE NATIONAL ACCOUNT PROGRAM BY SUNCOAST ENVIROMENTAL CONTROLS.

1.04 EMERGENCY LIGHTING UNITS

A. BATTERIES SHALL SUPPLY EMERGENCY POWER FOR LIGHTING WITH MINIMUM OPERATING TIME OF 1-1/2 HOURS.

B. EMERGENCY LIGHTING SHALL BE AUTOMATICALLY OPERATIONAL UPON NORMAL UTILITY POWER FAILURE.

PART 2 - EXECUTION

3.01 INSTALLATION

A. LIGHTING FIXTURES SHALL BE STRUCTURALLY SUPPORTED. FLUORESCENT FIXTURES MOUNTED IN DROPPED CEILINGS SHALL BE SUPPORTED BY AND ATTACHED TO CEILING SYSTEM AS REQUIRED BY NEC 410-16(C). IN ADDITION, FLUORESCENT TROFFERS SHALL BE SUPPORTED AT TWO OPPOSITE CORNERS TO BUILDING STRUCTURE.

B. RECESSED FIXTURES IN DROPPED CEILING AREAS SHALL BE CONNECTED TO POWER SOURCE USING FLEXIBLE CONDUIT. FLEXIBLE CONDUIT SHALL CONTAIN A SEPARATE INSULATED GREEN NO. 12 COPPER GROUND WIRE. FLEXIBLE CONDUIT SHALL BE CONNECTED TO JUNCTION BOX AND FIXTURE. GREEN GROUND WIRE SHALL PROVIDE GROUND CONTINUITY BETWEEN CONDUIT SYSTEM AND FIXTURE. GROUNDING CONDUCTORS SHALL BE PERMANENTLY AND MECHANICALLY CONNECTED BETWEEN FIXTURE AND CONDUIT SYSTEM SO AS TO BE ELECTRICALLY CONTINUOUS.

C. FIXTURES SURFACE-MOUNTED ON EXPOSED TEE BAR CEILINGS SHALL USE GRIP CLAMPS ON TEE BARS TO SUPPORT FIXTURES.

D. LOCATE NO SPLICE OR TAP WITHIN AN ARM, POST, OR POLE. WIRE SHALL BE CONTINUOUS FROM SPLICE IN OUTLET BOX OF BUILDING WIRING SYSTEM TO LAMP SOCKET OR BALLAST TERMINALS.

E. MAINTAIN THE INTEGRITY OF ENCLOSURES ON ENCLOSED AND GASKETED FIXTURES. MINIMIZE THE NUMBER OF ENCLOSURE PENETRATIONS AND MAKE SUCH PENETRATIONS WATER AND DUST TIGHT WITH APPROPRIATE GASKETS AND FITTINGS.

F. CONCRETE BASES SHALL BE PROVIDED FOR ALL EXTERIOR GROUND MOUNTED OR POLE MOUNTED FIXTURES.

G. INSTALL ACCESSORIES FURNISHED WITH EACH FIXTURE.

H. WIRING FROM POLE BASES TO POLE MOUNTED LUMINAIRE SHALL BE NO. 12, WITH FUSE PROTECTION BY A 30 AMP, 600 VOLT WATERPROOF FUSEHOLDER WITH BUSSMAN LIMITRON FUSE OF AMPERE RATING 3 TIMES THE LOAD CURRENT.

I. SURFACE AND RECESSED FIXTURES ON OR IN PLASTERED OR DRYWALL CEILINGS SHALL BE SUPPORTED BY SUPPORT CHANNELS. SUPPORT CHANNELS SHALL SPAN ACROSS MAIN SUPPORT CHANNELS AND SHALL NOT DEPEND UPON CEILINGS FOR SUPPORT.

3.02 FIELD QUALITY CONTROL

A. RELAMP FIXTURES THAT HAVE FAILED LAMPS AT SUBSTANTIAL COMPLETION.

SECTION 16741 - TELEPHONE SERVICE

PART 1 - GENERAL

1.01 WORK INCLUDED

A. FURNISH AND INSTALL TELEPHONE SYSTEM CONSISTING OF EMPTY CONDUITS, JUNCTION BOXES, OUTLET BOXES, DEVICE PLATES, ETC., AS SPECIFIED AND SHOWN ON OWNER SELECTED VENDOR WIRING SCHEMATICS. CABLE, EQUIPMENT, AND INSTALLATION OF THE INTERIOR SYSTEM WILL BE PROVIDED BY THE OWNER'S SYSTEM VENDOR.

B. PROVIDE UNDERGROUND PVC, SCHEDULE 40, SERVICE CONDUIT AS REQUIRED BY PLANS.

C. TELEPHONE UTILITY COMPANY WILL PROVIDE SERVICE ENTRANCE CABLE.

D. INTERIOR TELEPHONE SYSTEM WILL BE FURNISHED BY OWNER'S VENDOR.

E. SPECIAL BACKBOXES WILL BE FURNISHED BY THE OWNER'S VENDOR.

PART 2 - PRODUCTS

2.01 MATERIALS

A. PROVIDE 4-11/16" SQUARE BOXES, WITH PLASTER RINGS. PROVIDE DEVICE PLATES FOR TELEPHONE OUTLETS TO MATCH THOSE SPECIFIED IN WIRING DEVICE SECTION. PROVIDE SEPARATE CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE FROM EACH OUTLET.

B. MINIMUM CONDUIT SIZE SHALL BE 3/4".

C. PROVIDE LIGHTNING ARRESTER FOR TELEPHONE SERVICE ENTRANCE AT MAIN TELEPHONE BACKBOARD IN ACCORDANCE WITH UL96A PARAGRAPH 11.2 AND NFPA 780.

D. CABLE SHALL BE IN CONDUIT WHERE INSTALLED IN WALLS OR ABOVE INACCESSIBLE CEILING SPACES.

PART 3 - EXECUTION

3.01 INSTALLATION

A. PROVIDE ONE #10 EQUIVALENT NYLON PULL WIRE IN EACH EMPTY TELEPHONE CONDUIT.

B. PROVIDE TRENCHING, BACKFILLING, ETC., FOR INSTALLATION OF SERVICE ENTRANCE CONDUIT IN ACCORDANCE WITH OTHER DIVISIONS, PLANS, AND TELEPHONE UTILITY REQUIREMENTS. PROVIDE PULL WIRE IN EMPTY CONDUIT.

C. COORDINATE WITH THE LOCAL UTILITY FOR POINT OF SERVICE AND TYPE OF SERVICE REQUIRED. PAY FOR ANY UTILITY COMPANY CHARGES AND FEES FOR ESTABLISHMENT OF SERVICE.

D. PROVIDE A COMPLETE RACEWAY SYSTEM IN ACCORDANCE WITH TELEPHONE UTILITY COMPANY AND INTERIOR SYSTEM VENDOR/UTILITY REQUIREMENTS. TELEPHONE UTILITY COMPANY AND INTERIOR SYSTEM VENDOR SHALL REVIEW THE DRAWINGS. CONTRACTOR SHALL PROVIDE FOR ANY ADDITIONAL OR VARYING REQUIREMENTS.

E. TERMINATE EACH CONDUIT STUB-UP OR TERMINATION WITH NYLON INSULATED BUSHINGS.

F. FINAL CONNECTIONS AND TESTING OF SYSTEM WILL BE PROVIDED BY THE SYSTEM VENDOR. CONTRACTOR SHALL CONTACT THE OWNER AND VENDOR AND SCHEDULE THE WORK.

SECTION 16751 - SPECIAL SYSTEMS

PART 1 - GENERAL

1.01 WORK INCLUDED

A. FURNISH AND INSTALL RACEWAY SYSTEM FOR MUSIC/COMMUNICATIONS SECURITY, CCTV, POINT OF SALES, AND OTHER OWNER-FURNISHED SYSTEMS, CONSISTING OF EMPTY CONDUITS, JUNCTION BOXES, OUTLET BOXES, AND DEVICE PLATES, ETC., AS SPECIFIED AND SHOWN ON OWNER SELECTED VENDOR WIRING SCHEMATICS. CABLE, EQUIPMENT, AND INSTALLATION OF THE INTERIOR SYSTEM WILL BE PROVIDED BY THE OWNER'S SYSTEM VENDOR.

B. INTERIOR SYSTEM EQUIPMENT WILL BE FURNISHED BY OWNER'S VENDOR.

C. INSTALL SPECIAL BACKBOXES FURNISHED BY THE ELECTRICAL CONTRACTOR.

PART 2 - PRODUCTS

2.01 MATERIALS

A. PROVIDE 4-11/16" SQUARE BOXES, WITH PLASTER RINGS. PROVIDE DEVICE PLATES FOR SYSTEM OUTLETS AS SPECIFIED IN SECTION 16141. PROVIDE SEPARATE CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE FROM EACH OUTLET.

B. CABLE SHALL BE IN CONDUIT WHERE INSTALLED IN WALLS OR INACCESSIBLE CEILINGS.

C. MINIMUM CONDUIT SIZE SHALL BE 3/4".

PART 3 - EXECUTION

3.01 INSTALLATION

A. FURNISH AND INSTALL CONDUITS, JUNCTION BOXES, OUTLET BOXES, AND PLATES.

B. PROVIDE ONE #10 EQUIVALENT NYLON PULL WIRE IN EACH SYSTEM EMPTY CONDUIT.

C. PROVIDE A COMPLETE RACEWAY SYSTEM IN ACCORDANCE WITH INTERIOR SYSTEM VENDOR REQUIREMENTS. INTERIOR SYSTEM VENDOR SHALL REVIEW THE DRAWINGS. CONTRACTOR SHALL PROVIDE FOR ANY ADDITIONAL OR VARYING REQUIREMENTS.

D. FINAL CONNECTIONS AND TESTING OF SYSTEMS WILL BE PROVIDED BY THE SYSTEM VENDOR. CONTRACTOR SHALL CONTACT THE OWNER'S VENDOR AND SCHEDULE THE WORK SO AS TO COMPLETE SYSTEM INSTALLATION AND TESTING PRIOR TO OCCUPANCY OF THE FACILITY.

E. TERMINATE EACH CONDUIT STUB-UP OR TERMINATION WITH NYLON INSULATED BUSHING.

CLOSE OUT DOCUMENT REQUIREMENTS

PROVIDE THE FOLLOWING TO THE BUILDING OWNER UPON COMPLETION OF CONSTRUCTION:

1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
4. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

FOR CONSTRUCTION
FOR CONSTRUCTION
FOR CONSTRUCTION

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

Seal

3/13/07

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STORE
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FSU S06C-R

Chesterfield Commons
Chesterfield, MO

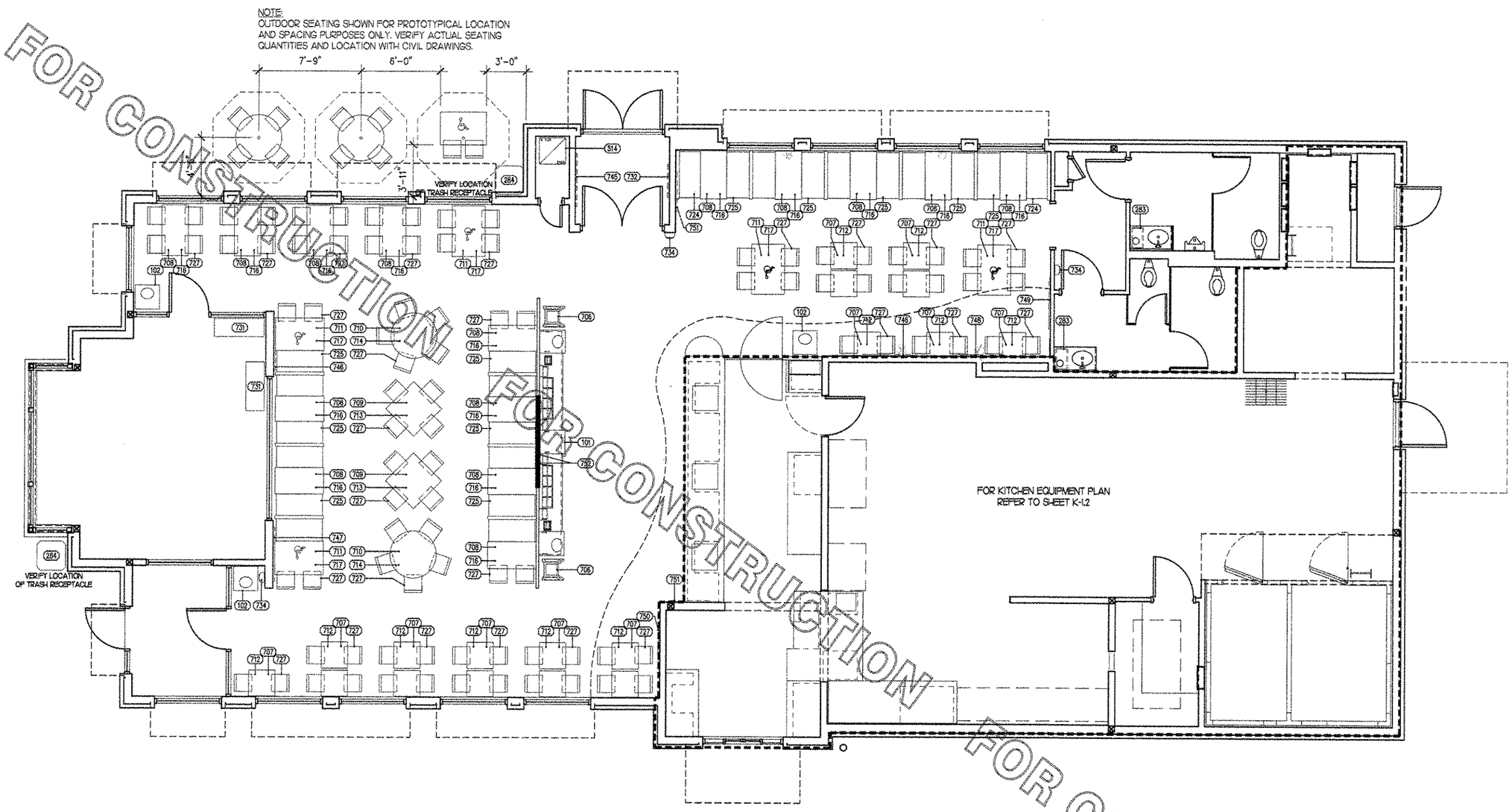
SHEET TITLE
ELECTRICAL SPECIFICATIONS

DWG EDITION 05.9
REVISION -

Job No. : CF06017
Store : 1976
Date : 05/26/06
Drawn By : EAS
Checked By: MTK

Sheet
E4.2

NOTE:
OUTDOOR SEATING SHOWN FOR PROTOTYPICAL LOCATION AND SPACING PURPOSES ONLY. VERIFY ACTUAL SEATING QUANTITIES AND LOCATION WITH CIVIL DRAWINGS.



1 PARTIAL EQUIPMENT PLAN - DINING AREA

1/4"=1'-0"

FOR CONSTRUCTION
FOR CONSTRUCTION
FOR CONSTRUCTION

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

CC#2
CC#4

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FSU S06C-R

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SHEET TITLE
EQUIPMENT PLAN

K EDITION S06-0
DWG EDITION 05.9
REVISION –

Job No. : -----
Store : 1976
Date : -----
Drawn By : TAM
Checked By: TAM

Sheet
K-1.1

FOR DINING AREA EQUIPMENT PLAN
REFER TO SHEET K-1.1

1 PARTIAL EQUIPMENT PLAN - KITCHEN

1/2"=1'-0"

FOR CONSTRUCTION
FOR CONSTRUCTION
FOR CONSTRUCTION
FOR CONSTRUCTION

MULTI-PURPOSE

MECH.

W.H.

SERVING

DRIVE-THRU

KITCHEN

COOLER

FREEZER

OFFICE

FUTURE EQUIPMENT

FUTURE EQUIPMENT

UNDERSHELF LIGHTS
RE: ELECTRICAL

REFER TO ARCHITECTURAL SHEETS FOR LOCATION OF HOSE REEL

PVC FOR SODA LINES

INTERLOCKED

INTERLOCKED

INTERLOCKED

5200 Buffington Rd.
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Revisions:

Mark	Date	By

Mark	Date	By

Mark	Date	By

CUT
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FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
EQUIPMENT PLAN

K EDITION S06-0
DWG EDITION 05.9
REVISION –

Job No. : ------
Store : 1976
Date : ------
Drawn By : TAM
Checked By: TAM

Sheet
K-1.2

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	MANUFACTURER	MECHANICAL													ITEM NO.	REMARKS (ALL ITEMS BY CHICK-FIL-A UNLESS OTHERWISE NOTED)
				ELECTRICAL						PLUMBING								
				VOLT	PH	KW	AMP	HP	NEMA RATING	HW	CW	PW	FW	FWR	IW	ROUGH-IN		
100	1	SERVING COUNTER	CLAYTON FIXTURE														100	
101	1	CONDIMENT COUNTER	CLAYTON FIXTURE														101	
102	3	TRASH CONTAINER	CLAYTON FIXTURE														102	
103	1	ORDER PREP TABLE	CLAYTON FIXTURE														103	
104	1	BACK BAR CABINET	CLAYTON FIXTURE														104	
112	1	LARGE UTILITY CABINET	CLAYTON FIXTURE														112	
113	1	DRIVE-THRU CASH TABLE	CLAYTON FIXTURE														113	
114	1	SANDWICH PREP TABLE	CLAYTON FIXTURE														114	
115	1	FRY HOLDING STATION	BKI MODEL #FW-15BB	120	1	1.9	15.4		NEMA 5-20R								115	ON ITEM #103
116	1	18" CART W/ HEAT LAMPS	MARSHALL AIR, CZ3A	120	1		9.7		NEMA 5-20R								116	36" CORD & PLUG
116a	1	BUILT-IN HEAT LAMP	MARSHALL AIR, CZ3	120	1		9.7		NEMA 5-20R								116a	36" CORD & PLUG
117	1	DRIVE-THRU COUNTER	CLAYTON FIXTURE														117	
123	5	WALL MOUNTED SPLASH GUARD	CUSTOM STAINLESS STEEL FABRICATION														123	12" HIGH X 24" WIDE WALL MOUNTED SIDE SPLASH WITH HEMMED EDGE
124	1	4 COMPARTMENT UTENSIL SINK	EAGLE GROUP MODEL #N-2464-4-18-14/3							(2)1/2"		(2)1/2"			1-1/2	P-9 @ 12" A.F.F.	124	WITH (2) 18" DRAIN BOARDS
125	1	VEGETABLE PREP SINK	EAGLE GROUP MODEL #N2416-1-18R-14/3							1/2"		1/2"	1/2"		1-1/2	P-8 @ 12" A.F.F.	125	WITH SIDE SPLASHES AND RIGHT DRAIN BOARD
131	1	SANDWICH SLIDE	MERCO MODEL #SW-6224	120/208	1	2.26	12.1		NEMA L14-20R								131	6' CORD & PLUG
132	3	BREAD RACK															132	
141	1	CONDIMENT RACK	CUSTOM STAINLESS STEEL FABRICATION														141	
142	1	DRIVE-THRU SHELF	CLAYTON FIXTURE														142	
143	1	SECURITY CABINET	CLAYTON FIXTURE														143	
146	1	SAFE CABINET	CLAYTON FIXTURE														146	
147	2	HAND SINK	EAGLE MODEL #HSA-10-N														147	WITH SIDE MOUNTING BRACKETS AND T & S MODEL #B-1115-LN MOD W/ 132 X WH14
201	8	ORDER REGISTER	PAR	120	1		0.7		NEMA 5-20R								201	
202	3	ORDER MONITOR	PAR	120	1		0.5		NEMA 5-20R								202	2 MOUNTED ON ITEM #202A - 1 MOUNTED WITH ITEM #202B
202A	2	WALL MOUNTED PENDANT	CUSTOM ST. STL. FABRICATION														202A	USED TO MOUNT POS MONITORS - ITEM NOT SHOWN ON DRAWING
202B	1	HEAD MOUNT BRACKET	CUSTOM ST. STL. FABRICATION														202B	USED TO MOUNT POS MONITOR LOCATED IN OPENING ABOVE ITEM #115 - ITEM NOT SHOWN
203	7	CASH DRAWER	PAR														203	
204	5	RECEIPT PRINTER	PAR	120	1		0.1		NEMA 5-20R								204	
205	4	ICE BIN / DRINK TOWER	IM CORNELIUS MODEL #2323	120	1		1.5		NEMA 5-20R								205	
206	1	BEVERAGE RACK SYSTEM	PRONTMASTER MODEL #BIB-4 STACK PLUS														206	
207	4	CARBONATOR	IM CORNELIUS	120	1		7.2		NEMA 5-20R				1/2"			P-23A @ 107" A.F.F.	207	
208	1	CO2 TANK	CARBO MIZER														208	LOCATED IN SERVICE YARD - SECURE TO WALL WITH CHAIN
209	1	HELIUM TANK	LOCAL VENDOR														209	LOCATED IN SERVICE YARD - SECURE TO WALL WITH CHAIN
212	1	TEA BREWER	WILBUR CURTIS MODEL #TCR-19000	120	1	1.675	14.0		NEMA 5-20R					3/8"		P-24 @ 48" A.F.F.	212	QUICK DISCONNECT HOSES PROVIDED BY OWNER
213	6	TEA DISPENSER	WILBUR CURTIS MODEL #TC-SHV														213	
214	1	TIER OF DRAWERS	EAGLE GROUP MODEL #T-TD3-CF														214	
215	1	SINGLE COFFEE MAKER	WILBUR CURTIS MODEL #TP2S10A3140	208	1	4.0	19.2		NEMA L14-30R					3/8"		P-24 @ 53" A.F.F.	215	4' CORD WITH 90° PLUG HEAD BY G.C.
217	4	COFFEE WARMER & STAND	FETCO MODEL #LUXUS L3S-15														217	
219	1	SINGLE JUICE DISPENSER	STARLINE MODEL #042101	120	1		1.7		NEMA 5-20R								219	
220	1	DOUBLE JUICE DISPENSER	STARLINE MODEL #042102	120	1		4.0		NEMA 5-20R								220	
221	1	ICE BIN	FOLLET MODEL #SG1300S-48												1"		221	
222	1	ICE MAKER	HOSHIZAKI MODEL #KM2400SRB3	208	3		16.8		DIRECT CONNECTION			1/2"			3/4"	P-23 @ 80" A.F.F.	222	
223	1	WATER FILTER SYSTEM	SELECTO SCIENTIFIC, #MF620-2F							3/4"		3/4"				SEE DET. 4/P-6.1	223	SUPPLIED WITH CHLORINE FILTER
223A	1	WATER FILTER SYSTEM - ICEPRO FILTER	SELECTO SCIENTIFIC, #ICEPRO									3/4"				SEE DET. 4/P-5.1	223A	SUPPLIED WITH FILTER
224	1	ICE CREAM MACHINE	TAYLOR MODEL #751 (AIR COOLED)	208	3		17.0	1/2	NEMA 5-30R								224	
224a	1	ICE CREAM CONE DISPENSER	TAYLOR														224a	
224b	1	MILKSHAKE BASE DISPENSER	SURESHOT MODEL #AC220-FP	120	1		3.0		NEMA 5-20R								224b	
224c	3	SHAKE INGREDIENT PAN WITH LID	POLARWARE MODEL #E904 / 902-6														224c	
224d	1	SINGLE-SPINDLE MIXER	TAYLOR MODEL #X50276-27														224d	
224e		ITEM NOT USED																
224f		ITEM NOT USED																
229	2	SGL. UNDERCOUNTER REFRIGERATOR	TRAULSEN MODEL #UHT27-ZCF	120	1		3.3		NEMA 5-20R								229	(1) HINGE LEFT, (1) HINGE RIGHT
230	1	SGL. UNDERCOUNTER REFRIGERATOR	TRAULSEN MODEL #UPT273-ZCF01	120	1	.345	4.5		NEMA 5-20R								230	HINGE RIGHT WITH GLASS DOOR
231	1	BREADING TABLE	RANDELL MODEL #52365WPRM-CFA	120	1		12.0		NEMA 5-20R								231	
232	1	DOUBLE UNDERCOUNTER REFRIGERATOR	TRAULSEN MODEL #UHT48-ZCF	120	1		5.7		NEMA 5-20R								232	
236	1	SGL. SECTION REACH-IN FREEZER	TRAULSEN MODEL #RLT132WUT-FHS	120	1		11.5	1/2	NEMA 5-20R								236	HINGE RIGHT
237	1	SGL. SECTION REACH-IN REFRIGERATOR	TRAULSEN MODEL #RHT132WUT-FHS	120	1		8.0	1/3	NEMA 5-20R								237	HINGE RIGHT
240	1	WALK-IN FREEZER	KOLPAK	120	1		3.3		DIRECT CONNECTION								240	
240A	1	WALK-IN FREEZER CONDENSER	KOLPAK	208	3		9.4		DIRECT CONNECTION								240A	G.C. SHALL INSTALL CONDENSER ON ROOF
240B	1	WALK-IN FREEZER EVAPORATOR	KOLPAK	208	1		8.7		DIRECT CONNECTION								240B	
241	1	WALK-IN COOLER	KOLPAK	120	1		2.4		DIRECT CONNECTION								241	
241A	1	WALK-IN COOLER CONDENSER	KOLPAK	208	3		8.8		DIRECT CONNECTION								241A	G.C. SHALL INSTALL CONDENSER ON ROOF
241B	1	WALK-IN COOLER EVAPORATOR	KOLPAK	120	1		4.2		DIRECT CONNECTION								241B	
242	1	THAWING CABINET	TRAULSEN MODEL #RE232N-1	120	1		16.0		NEMA 5-20R								242	HINGED STANDARD
243	1	SANDWICH TOASTER	TOASTMASTER MODEL #A7-10S	120	1	1.65	6.0		NEMA 5-20R								243	SUPPLIED WITH 3' CORD AND PLUG
246	1	BUN WARMER	PRINCE CASTLE MODEL #297-T12PHH	120	1		13		NEMA 5-20R								246	SUPPLIED WITH 3' CORD AND PLUG WITH RECESSED CORD RELIEF
247	1	DOUBLE WARMING DRAWER	TOASTMASTER MODEL #3B80A	120	1	1.00	8.7		NEMA 5-20R								247	
249	1	SINGLE FOOD WARMER	WELLS MODEL #HW-10	120	1	1.65	13.8		NEMA 5-20R								249	
251	1	BISCUIT HOLDING CABINET	WINSTON MODEL #HA4509-HR-3 CVAP	120	1	2.29	19.1		NEMA L5-30R								251	HINGED LEFT, ORDER WITH TWIST LOCK PLUG
252	1	HOLDING CABINET	HENNY PENNY MODEL #CF-941	120	1	.475	4.0		NEMA 5-20R								252	
255	2	OPEN FRYER	HENNY PENNY MODEL #OFE-321.02	208	3	22.0	61		PIN & SLEEVE								255	
256	3	PRESSURE FRYER	HENNY PENNY MODEL #PFE-500	208	3	13.5	38.0		NEMA 15-50R								256	
257	1	CHAR-GRILL COOKER WITH STAND	TAYLOR MODEL #QS11	208	3	9.6	27.0		NEMA 15-50R								257	
263	1	RANGE/CONVECTION OVEN	LANG MODEL #SCR30GS-ACF	208	3	16.5			NEMA 15-60R								263	GRIDDLE ON LEFT SIDE, FRENCH PLATE ON RIGHT SIDE - OVEN MOUNTED ON CASTERS
263G	1	RANGE/CONVECTION OVEN	LANG MODEL #SCR30G-ACF	208	3	17.3			NEMA 15-60R								263G	FULL GRIDDLE TOP - OVEN MOUNTED ON CASTERS
272	1	FLOOR MIXER	HOBART MODEL #A200	120	1		9.8	1/2	NEMA 5-20R								272	ELECTRICIAN TO CHANGE PLUG TO TWIST LOCK
273	1	FOOD CUTTER	HOBART MODEL #84186	120	1		16.0	1.0	NEMA 5-20R								273	ELECTRICIAN TO CHANGE PLUG TO TWIST LOCK
274	1	FAT VAT	PITCO FRIALATOR MODEL FAT VAT														274	LOCATED IN SERVICE YARD
275	1	TRASH CART WITH LID	RUBBERMAID MODEL #1011 AND #1028														275	LOCATED IN SERVICE YARD
278	1	INGREDIENT BIN	RUBBERMAID														278	
279	1	MOBILE CART	INTERMETRO MODEL #MW206														279	
281	13	SMALL MENU BOX	EXPOTRANS	120	1		.55		NEMA 5-20R								281	
282	2	SIGN STANDS	LAWRANCE METAL														282	NOT SHOWN ON DRAWING
283	6	SLIM JIM TRASH CAN	RUBBERMAID														283	
284	2	OUTDOOR TRASH RECEPTACLE	WAUSAU TILE MODEL #TF1100WCC-PDTL														284	LOCATED OUTSIDE STORE
286	1	ANSUL FIRE SUPPRESSION SYSTEM	HALTON HOODS														286	AT HOOD SHROUD
287	1	SAFE	CORPORATE SAFE MODEL #BR2926														287	
288	1	UNIFORM CABINET	BY OPERATOR														288	
289	1	TV/DVD	TOSHIBA MODEL #MD-13M1	120	1	.089											289	MOUNTED ON ITEM #289A
289A	1	WALL MOUNTED PENDANT	CUSTOM ST. STL. FABRICATION														289A	ITEM NOT SHOWN ON DRAWING

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Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

Mark	Date	By

Mark	Date	By

EDWARDS + HOTCHKISS ARCHITECTS, P.C.
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E-MAIL: gennie@eandharch.com
eh ARCHITECTS

STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
EQUIPMENT SCHEDULE

K EDITION S06-0
DWG EDITION 05.9
REVISION —

Job No. : ------
Store : 1976
Date : ------
Drawn By : TAM
Checked By: TAM

Sheet
K-2.1

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	MANUFACTURER	MECHANICAL														ITEM NO.	REMARKS (ALL ITEMS BY CHICK-FIL-A UNLESS OTHERWISE NOTED)
				ELECTRICAL						PLUMBING									
				VOLT	PH	KW	AMP	HP	NEMA RATING	HW	CW	PW	PW	PWE	IW	ROUGH-IN			
290	1	LOCKERS	WINHOLT MODEL #WL-612															290	2 TIERS, 12 OPENINGS
291	1	MOP RACK																291	FURNISHED BY OWNER
292	1	DRIVE-THRU VIDEO MONITOR	PANASONIC	120	1		0.8		NEMA 5-20R									292	FURNISHED BY OWNER
293	1	PRESSURE WASHER	NORTH STAR MODEL #1578181															293	LOCATED AT REFUSE ENCLOSURE
294	1	REFRIGERATED WORK TABLE	TRAULSEN MODEL #UHT60-ZCF-LR	120	1		5.7		NEMA 5-20R									294	ELECTRICIAN TO CHANGE PLUG TO TWIST LOCK
295	2	FOOD PREP TABLE	EAGLE MODEL #T2460SEBS															295	
295a	1	HAT CHANNEL BACKSPLASH FOR WORK TABLES	CUSTOM ST. STL. FABRICATION (60" x 2-1/2" x 4" HIGH)															295a	
295b	1	PLEXIGLASS DIVIDER FOR WORK TABLES	VERIFY (30" HIGH x 60" LONG)															295b	
297	1	SALAD PREP TABLE	TRAULSEN MODEL #VPS-90S-ZCF01	120	1		16.0		NEMA L5-20R									297	ELECTRICIAN TO CHANGE PLUG TO TWIST LOCK
298	1	SALAD DISPLAY REFRIGERATOR	TRAULSEN MODEL #RH126W-ZCF01	120	1		8.0		NEMA 5-20R									298	HINGE LEFT, ORDER WITH CASTERS
299	1	WORK TOP UNIT (33" POST, 18"x48")	INTERMETRO (NOTE-LEGS TO BE CUT TO 36" ON SITE)															299	METROSEAL - (1) SOLID SHELF ON TOP, (1) WIRE SHELF BELOW AT 18" AFF
300	1	REFRIGERATED WORK TABLE	TRAULSEN MODEL #UHT48-ZCF-LR	120	1		5.7		NEMA L5-20R									300	ELECTRICIAN TO CHANGE PLUG TO TWIST LOCK
407	1	137" VENT HOOD	HALTON HOODS															407	HOOD SHROUD BY VENT HOOD MANUFACTURER
408	1	42" VENT HOOD	HALTON HOODS															408	HOOD SHROUD BY VENT HOOD MANUFACTURER
409	1	62" VENT HOOD	HALTON HOODS															409	HOOD SHROUD BY VENT HOOD MANUFACTURER
500	1	PILOT STATION	INTERMETRO (CFA2436WS-KIT)															500	(2)24"x36" SHELVES, (1)24"x36" SOLID DROP-DOWN S.S. TABLE, (1)TOOL BASKET (SMART WALL)
501	8	DUNNAGE RACK (22"x36")	INTERMETRO - MODEL #HP2236PDMB															501	
502	1	FLOOR SHELF UNIT (7' POST, 24"x36")	INTERMETRO															502	METROSEAL - 3 SHELVES ABOVE DUNNAGE SHELF, 1 SHELF BELOW DUNNAGE SHELF
513	1	FLOOR SHELF UNIT (6' POST, 24"x24")	INTERMETRO															513	METROSEAL - 2 SHELVES ABOVE DUNNAGE SHELF, 1 SHELF BELOW DUNNAGE SHELF
514	1	FLOOR SHELF UNIT (7' POST, 24"x24")	INTERMETRO															514	METROSEAL - 2 SHELVES ABOVE DUNNAGE SHELF, 1 SHELF BELOW DUNNAGE SHELF
515	4	FLOOR SHELF UNIT (6' POST, 18"x36")	INTERMETRO - 4 UNITS INTERLOCKED BY SHARING POSTS															515	METROSEAL - 4 SHELVES
515a	4	STAINLESS STEEL BACK PANEL	CUSTOM ST. STL. FAB. (36"X74" WITH HEMMED EDGE)															515a	
518	1	FLOOR SHELF UNIT (6' POST, 18"x48")	INTERMETRO															518	METROSEAL - 3 SHELVES ABOVE DUNNAGE SHELF, 1 SHELF BELOW DUNNAGE SHELF
520		ITEM NOT USED																	
522	6	FLOOR SHELF UNIT (8' POST, 24"x48")	INTERMETRO															522	METROSEAL - 3 SHELVES ABOVE DUNNAGE SHELF, 1 SHELF BELOW DUNNAGE SHELF
523	2	FLOOR SHELF UNIT (7' POST, 18"x48")	INTERMETRO															523	METROSEAL
524	1	FLOOR SHELF UNIT (7' POST, 14"x24")	INTERMETRO															524	METROSEAL - 3 SHELVES ABOVE DUNNAGE SHELF, 1 SHELF BELOW DUNNAGE SHELF
525	11	POST MOUNTED SHELF (24"x36")	INTERMETRO															525	METROSEAL - SEE INTERIOR ELEVATIONS FOR POSTS AND SUPPORTS
526	4	POST MOUNTED SHELF (24"x42")	INTERMETRO															526	METROSEAL - SEE INTERIOR ELEVATIONS FOR POSTS AND SUPPORTS
527	15	POST MOUNTED SHELF (24"x48")	INTERMETRO															527	METROSEAL - SEE INTERIOR ELEVATIONS FOR POSTS AND SUPPORTS
528		ITEM NOT USED																	
542	1	KEY CABINET																542	FURNISHED BY OWNER
543	1	COAT RACK																543	FURNISHED BY OWNER
544	2	POST MOUNTED SHELF (24"x24")	INTERMETRO															544	METROSEAL - SEE INTERIOR ELEVATIONS FOR POSTS AND SUPPORTS
545	10	OVERHEAD SHELF UNIT (30"x48")	INTERMETRO															545	METROSEAL - SEE STRUCTURAL SHEETS FOR INSTALLATION INFORMATION
545a	11	VERTICAL SHELF DIVIDER (18" HIGH X 30" DEEP	VERIFY															545a	MOUNTED ON 12" CENTERS AT SALAD PREP AREA
546	1	OVERHEAD SHELF UNIT (24"x36")	INTERMETRO															546	METROSEAL - SEE STRUCTURAL SHEETS FOR INSTALLATION INFORMATION
547	6	OVERHEAD SHELF UNIT (30"x60")	INTERMETRO															547	METROSEAL - SEE STRUCTURAL SHEETS FOR INSTALLATION INFORMATION
547a	9	VERTICAL SHELF DIVIDER (18" HIGH X 30" DEEP	VERIFY															547a	MOUNTED ON 12" CENTERS AT FOOD PREP AREA
548	1	JUICER WORK STATION	INTERMETRO															548	WITH SOLID WORK SURFACE AND 24" LEGS (LEGS TO BE CUT TO LENGTH IN FIELD AS NEEDED)
549	3	FLOOR SHELF UNIT (7' POST, 24"x48")	INTERMETRO															549	METROSEAL - 3 SHELVES ABOVE DUNNAGE SHELF, 1 SHELF BELOW DUNNAGE SHELF
550	1	POST MOUNTED SHELF (18"x24")	INTERMETRO															550	METROSEAL - LOCATED IN MECHANICAL ROOM, MOUNT SHELF AT 8'-0" ABOVE FINISHED FLOOR
551	1	POST MOUNTED SHELF (18"x36")	INTERMETRO															551	METROSEAL - SHELF TO HAVE LEDGE AT EACH END
552	1	POST MOUNTED SHELF (18"x48")	INTERMETRO															552	SOLID - USE DOUBLE SUPPORTS
558	1	POST MOUNTED SHELF (24"x30")	INTERMETRO															558	METROSEAL - SEE INTERIOR ELEVATIONS FOR POSTS AND SUPPORTS
559	1	SMART WALL KIT	INTERMETRO (CFA - 3BAY36)															559	24"x36" & 18"x36" (SMART WALL) - SEE INTERIOR ELEVATIONS FOR POSTS AND SUPPORTS
560	2	SMART WALL KIT	INTERMETRO (CFA - 3BAY48)															560	24"x48" & 18"x48" (SMART WALL) - SEE INTERIOR ELEVATIONS FOR POSTS AND SUPPORTS
561	1	POST MOUNTED SHELF	INTERMETRO (CFA-BT)															561	24"x24" & 24"x30" (METROSEAL) AND 18"x24" & 18"x30" (SOLID) - SEE INTERIOR ELEVATIONS
601	3	SOAP DISPENSER																601	FURNISHED BY OWNER
602	3	HAND SANITIZER																602	FURNISHED BY OWNER
606	4	PAPER TOWEL DISPENSER	SAN JAMAR															606	
610	1	UTILITY SHELF	ASI MODEL #0692 - 6"x18"															610	
611	1	MULTI-PURPOSE UNIT	ASI MODEL #0440SM															611	
700	2	EMPLOYEE BREAK CHAIR	HON															700	
701	1	BREAK TABLE	MITY LITE MODEL #RT-2448															701	
702	1	DESK TOP	CLAYTON FIXTURES															702	
703	1	DESK CHAIR	HON															703	
704	2	FILE CABINET	HON															704	2-DRAWER
705	1	B.O.G. CABINET	CLAYTON FIXTURES															705	
706	6	HIGH CHAIR	RUBBERMAID															706	
707	18	TABLE BASE	FALCON															707	3" COLUMN WITH 3 FEET
708	30	TABLE BASE	FALCON															708	3" COLUMN WITH 2 FEET
709	2	TABLE BASE	FALCON															709	4" COLUMN WITH 3 FEET
710	2	TABLE BASE	FALCON															710	4" COLUMN WITH PEDESTAL BASE
711	10	TABLE BASE	FALCON															711	3" COLUMN WITH 2 FEET WITH 10" CORNER SPIDER
712	18	22"x24" TABLE	FALCON															712	REQUIRES (1) #707
713	2	36"x36" TABLE	FALCON															713	REQUIRES (1) #709
714	2	42" ROUND TABLE	FALCON															714	REQUIRES (1) #710
716	15	24"x44" TABLE	FALCON															716	REQUIRES (2) #708
717	5	30"x44" TABLE	FALCON															717	REQUIRES (2) #711
724	2	45" SINGLE BOOTH SEAT	FALCON															724	
725	10	45" DOUBLE BOOTH SEAT	FALCON															726	
727	90	CHAIR	FALCON															727	
731	2	SNEAKER KEEPER BENCH	CLAYTON FIXTURES															731	48" LONG
732	1	COMMUNITY BULLETIN BOARD																732	
733	4	ST. STL. LID AND CUP DISPENSER																733	NOT SHOWN ON DRAWING
734	4	FLY SYSTEM	VECTOR MODEL - DISCREET	120		0.032	0.28		NEMA 5-15R									734	
734K	2	FLY SYSTEM	VECTOR MODEL - GOLD	120		0.078	0.65		NEMA 5-15R									734K	
735	1	FLOOR SHELF UNIT (6' POST)	INTERMETRO (METROSEAL) 24"x36"															735	LOCATED IN DUMPSTER STORAGE ROOM, 3 SHELVES AND BOTTOM DUNNAGE SHELF
736	2	FLOOR SHELF UNIT (6' POST)	INTERMETRO (METROSEAL) 24"x48"															736	LOCATED IN DUMPSTER STORAGE ROOM, 3 SHELVES AND BOTTOM DUNNAGE SHELF
745	1	48" X 48" PHOTO PANEL - "WELCOME"	PROVIDED BY OWNER															745	RE: ARCHITECTURAL FOR MOUNTING HEIGHT
746	2	48" X 48" PHOTO PANEL - "WE DIDN'T INVENT	PROVIDED BY OWNER															746	RE: ARCHITECTURAL FOR MOUNTING HEIGHT
747	1	48" X 48" PHOTO PANEL - "OPPORTUNITIES"	PROVIDED BY OWNER															747	RE: ARCHITECTURAL FOR MOUNTING HEIGHT
748	1	48" X 48" PHOTO PANEL - "WINSHAPE"	PROVIDED BY OWNER															748	RE: ARCHITECTURAL FOR MOUNTING HEIGHT
749	1	48" X 48" PHOTO PANEL - "CLASSICS"	PROVIDED BY OWNER															749	RE: ARCHITECTURAL FOR MOUNTING HEIGHT
750	1	36" X 48" PHOTO PANEL - "NUTRITION"	PROVIDED BY OWNER															750	RE: ARCHITECTURAL FOR MOUNTING HEIGHT
751	2	36" X 48" PHOTO PANEL - "TRAYS"	PROVIDED BY OWNER															751	RE: ARCHITECTURAL FOR MOUNTING HEIGHT
752	2	CUSTOM PHOTO PANEL - "DESSERT"	PROVIDED BY OWNER															752	PLACED IN ITEM #101 DISPLAY FRAME
802	1	HAND SINK AT BACK COUNTER	EAGLE GROUP MODEL #SR10-14-9.5-1							1/2"	1/2"					9-1/2"		802	T & S FAUCET WITH WRIST BLADE HANDLES MDL. #B-2389
850	1	MOP SINK	BUILT-IN							1/2"	1/2"					3"		850	SUNKEN 24"x36" - WALL @ (3) SIDES / STAINLESS STEEL WALL PANEL TO 60" AFF

FOR CONSTRUCTION
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5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

Mark	Date	By

Mark	Date	By

CLAY

EDWARDS + HOTCHKISS ARCHITECTS, P.C.
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219 WARD CIRCLE SUITE 1
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37027-7583
PHONE: 615/377-3111
FAX: 615/377-9878
E-MAIL: gemail@eandharch.com
e+h ARCHITECTS

STORE
Chesterfield Commons
FSU S06C-R

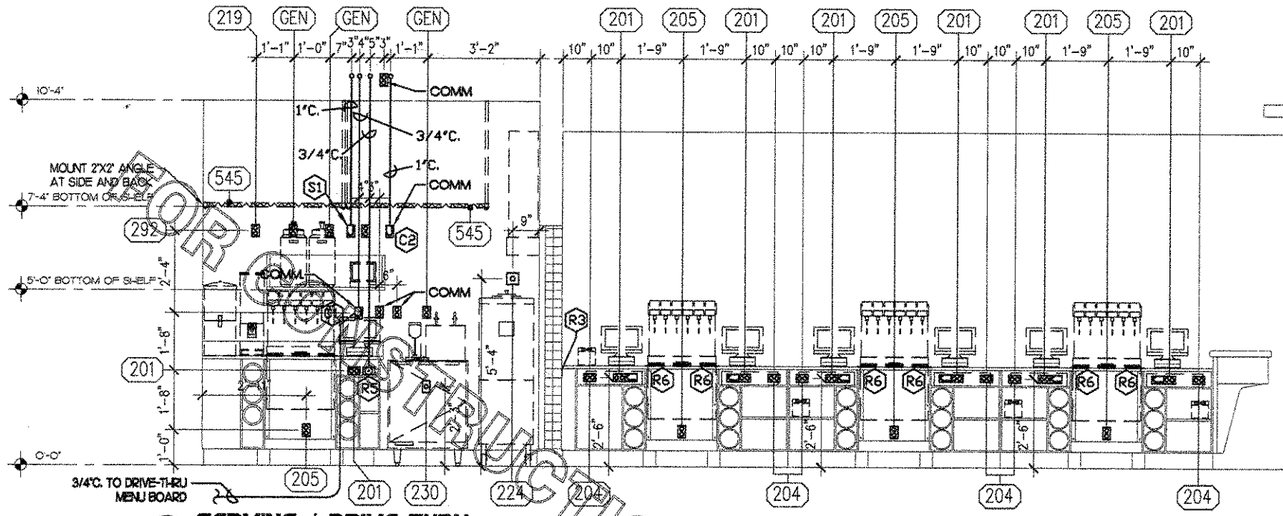
Chesterfield Commons
Chesterfield, MO

SHEET TITLE
EQUIPMENT SCHEDULE

K EDITION S06-0
DWG EDITION 05.9
REVISION -

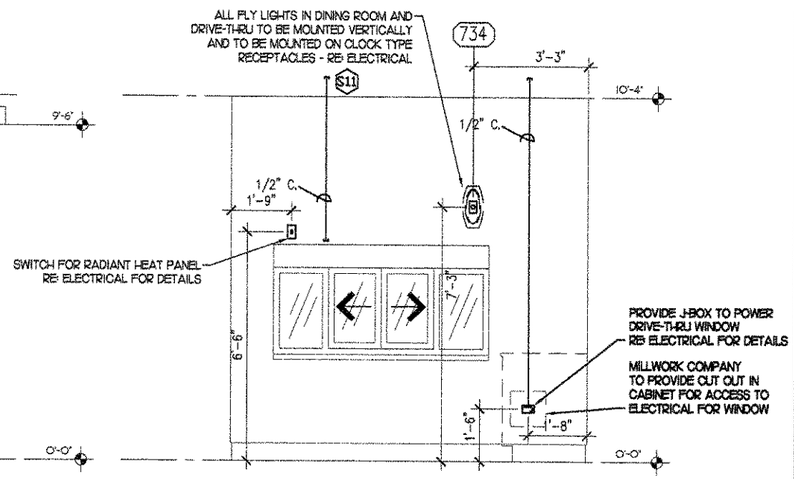
Job No. : -----
Store : 1976
Date : -----
Drawn By : TAM
Checked By: TAM

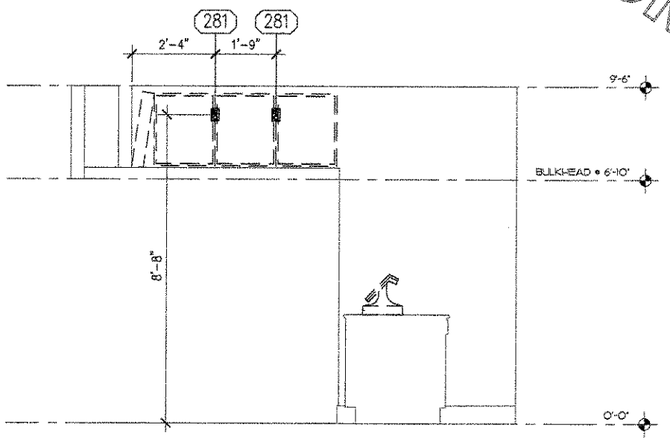
Sheet
K-2.2



1 SERVING / DRIVE-THRU

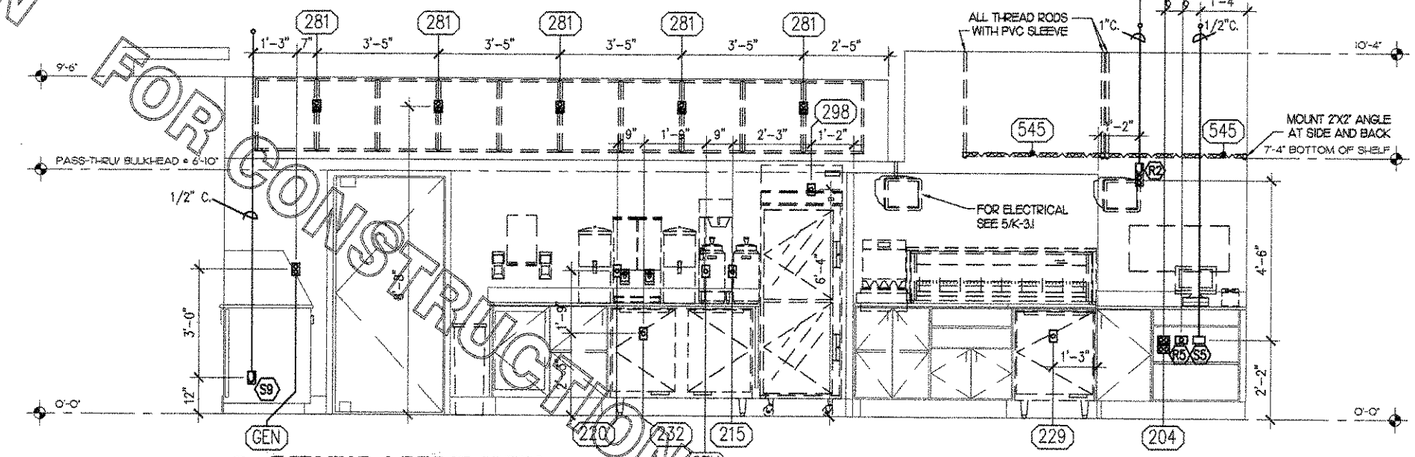
1/2"= 1'-0"





3 SERVING / DRIVE-THRU

1/2"=1'-0"

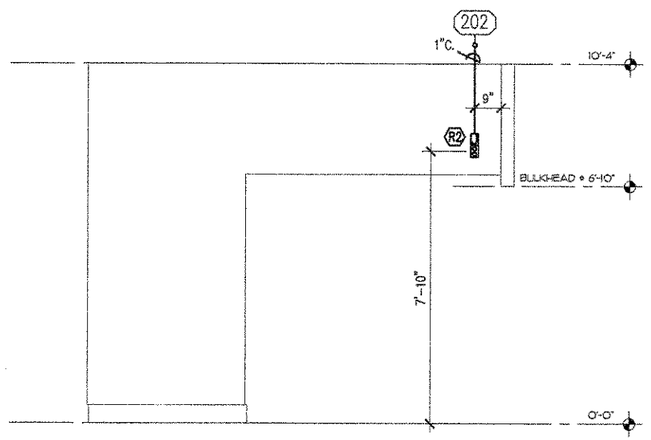


4 SERVING / DRIVE-THRU

1/2"=1'-0"

2 SERVING / DRIVE-THRU

1/2"= 1'-0"



5 SERVING / DRIVE-THRU

1/2"=1'-0"

ELEVATION LEGEND

XXX	EQUIPMENT NUMBER
N2	INDICATES NOTE ON SHEET E2
J	JUNCTION BOX
S	SIMPLEX RECEPTACLE
D	DUPLEX RECEPTACLE
	SWITCH
	PHONE
	TERMINATION OF PVC CONDUIT FOR RADIANT POS SYSTEM
DD	DOUBLE DUPLEX RECEPTACLE
D	SMOKE DETECTOR LED (2 GANG BOX)
SK	SECURITY KEYPAD

FOR CONSTRUCTION
FOR CONSTRUCTION
FOR CONSTRUCTION

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

CLAB CURTS

EDWARDS + HOTCHKISS ARCHITECTS, P.A.
THE MAGIC PLANET
MARYLAND FARMS
219 WARD CIRCLE, SUITE 1
BRENTWOOD, TENNESSEE
37027-7583
PHONE: 615/377-3111
FAX: 615/377-0876
E-MAIL: gemail@eandharch.com
eh ARCHITECTS

STORE
Chesterfield Commons
FSU S06C-R

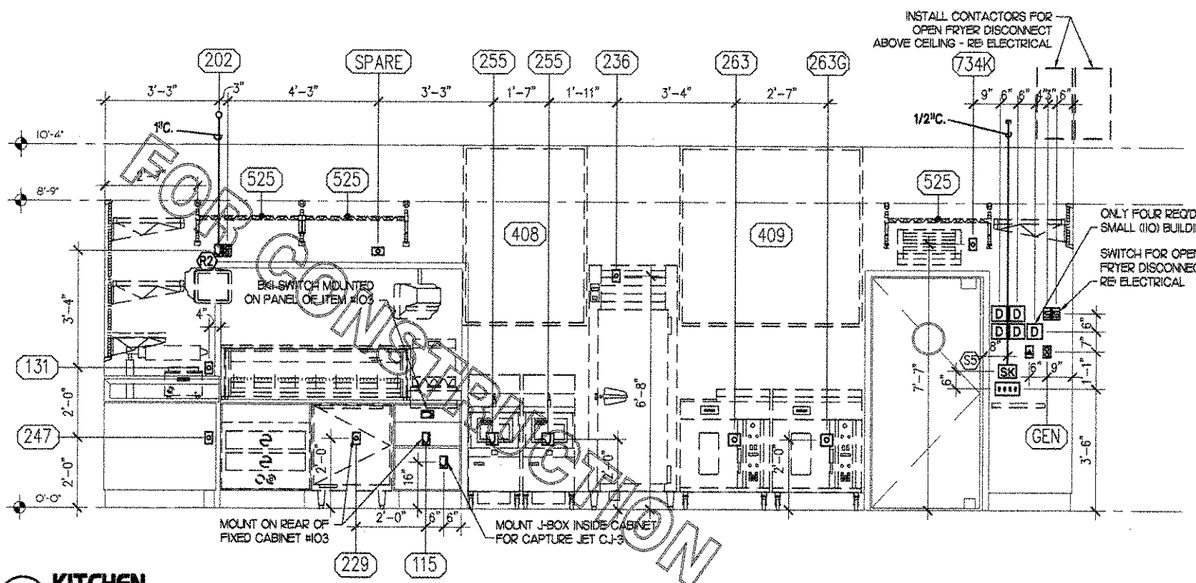
Chesterfield Commons
Chesterfield, MO

SHEET TITLE
ELECTRICAL ROUGH-IN ELEVATIONS

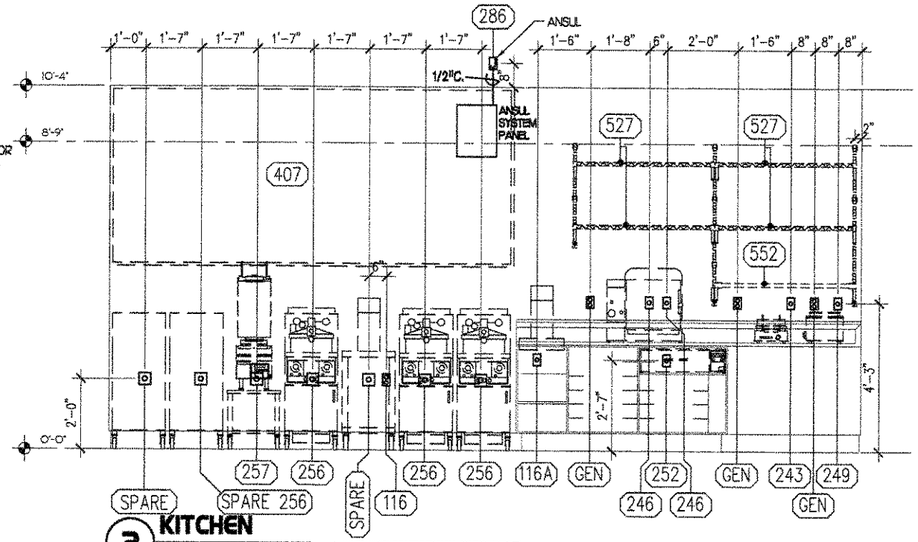
K EDITION S06-0
DWG EDITION 05.9
REVISION -

Job No. : ----
Store : 1976
Date : ----
Drawn By : TAM
Checked By: TAM

Sheet
K-3.1



1 KITCHEN
1/2"= 1'-0"



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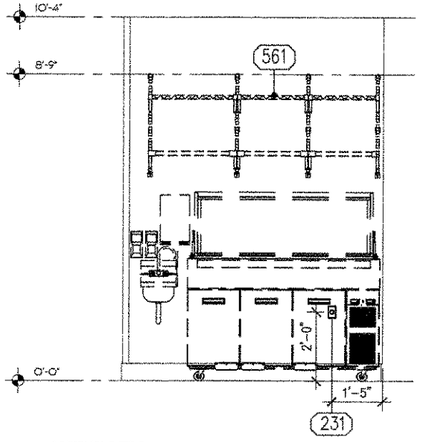
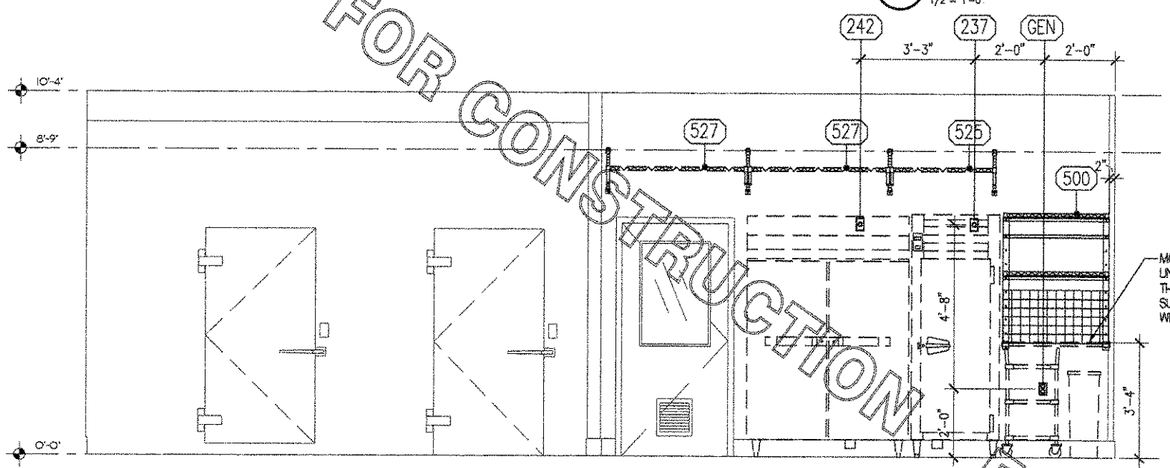
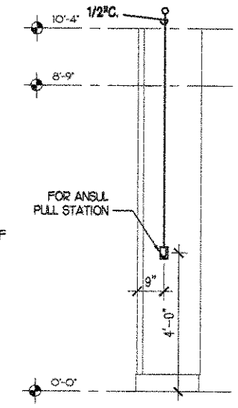
1/2"= 1'-0"



3 KITCHEN
1/2"= 1'-0"



4 KITCHEN
1/2"= 1'-0"



5 KITCHEN
1/2"= 1'-0"

ELEVATION LEGEND

XXX	EQUIPMENT NUMBER
W2	INDICATES NOTE ON SHEET E2
J	JUNCTION BOX
S	SIMPLEX RECEPTACLE
D	DUPLEX RECEPTACLE
S	SWITCH
P	PHONE
T	TERMINATION OF PVC CONDUIT FOR RADIANT POS SYSTEM
DD	DOUBLE DUPLEX RECEPTACLE
D	SMOKE DETECTOR LED (2 GANG BOX)
SK	SECURITY KEYPAD

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Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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Mark	Date	By
1		
2		
3		

EDWARDS + HOTCHKISS ARCHITECTS, P.C.
FRANCIS J. HAM AT
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219 WARD CIRCLE, SUITE 1
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eh ARCHITECTS

STORE
Chesterfield Commons
FSU S06C-R

Chesterfield Commons
Chesterfield, MO

SHEET TITLE
ELECTRICAL
ROUGH-IN
ELEVATIONS

K EDITION S06-0
DWG EDITION 05.9
REVISION –

Job No. :
Store :1976
Date :
Drawn By : TAM
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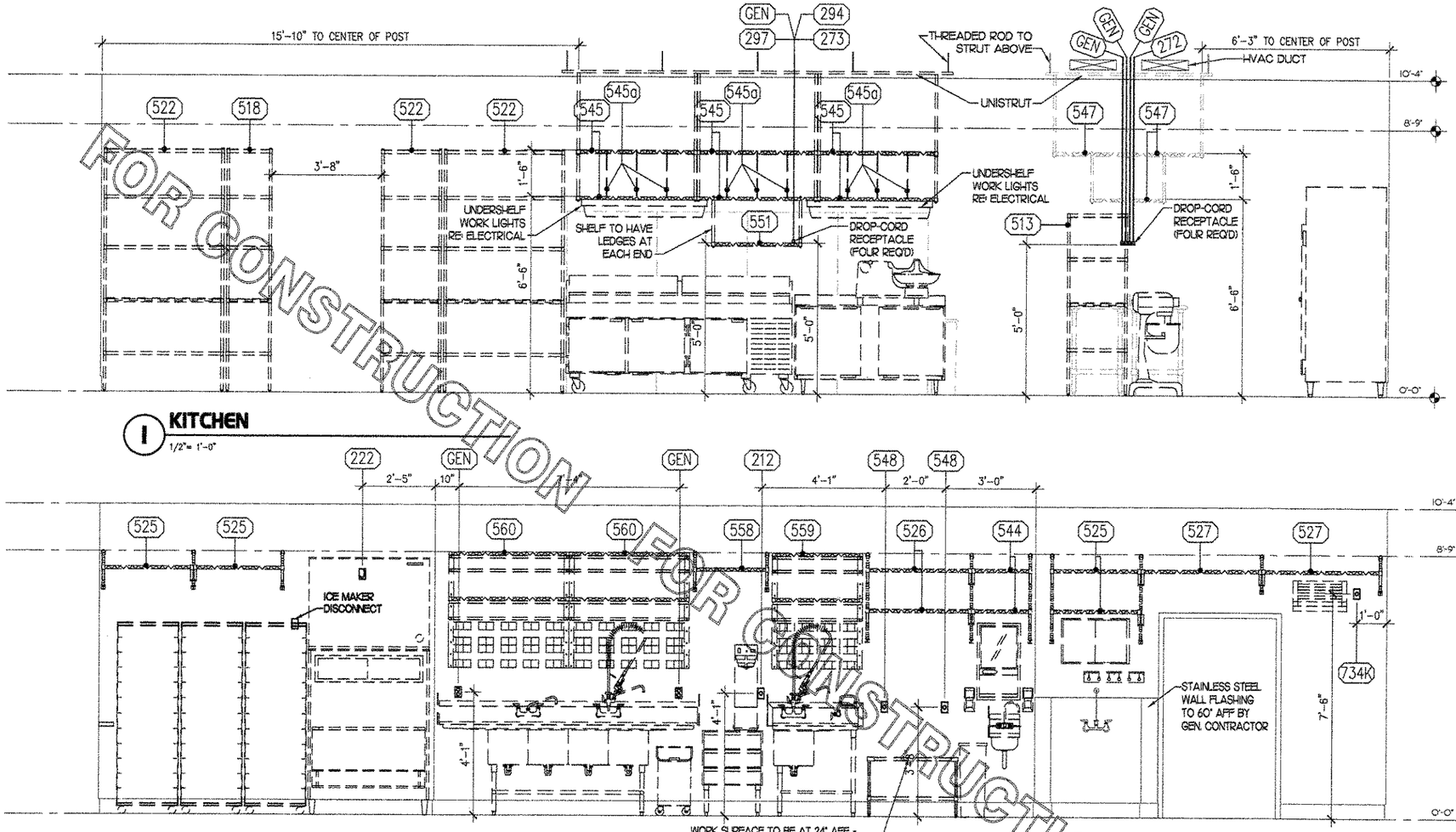
Sheet
K-3.2



FOR CONSTRUCTION
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ELEVATION LEGEND

- XXX — EQUIPMENT NUMBER
- M2 — INDICATES NOTE ON SHEET E2
- J — JUNCTION BOX
- D — SIMPLEX RECEPTACLE
- D — DUPLEX RECEPTACLE
- S — SWITCH
- P — PHONE
- C — TERMINATION OF PVC CONDUIT FOR RADIANT POS SYSTEM
- DD — DOUBLE DUPLEX RECEPTACLE
- D — SMOKE DETECTOR LED (2 GANG BOX)
- SK — SECURITY KEYPAD

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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EDWARDS + HUTCHESS ARCHITECTS, P.A.
TEAGUE PARK PLAZA AT MARYLAND FARMS
219 WARD CIRCLE, SUITE 1
BRENTWOOD, TENNESSEE 37027-7563
PHONE: 615/377-3111
FAX: 615/577-0978
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eh ARCHITECTS

STORE
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Chesterfield Commons
Chesterfield, MO

SHEET TITLE
ELECTRICAL ROUGH-IN ELEVATIONS

K EDITION S06-0
DWG EDITION 05.9
REVISION –

Job No. :
Store :1976
Date :
Drawn By : TAM
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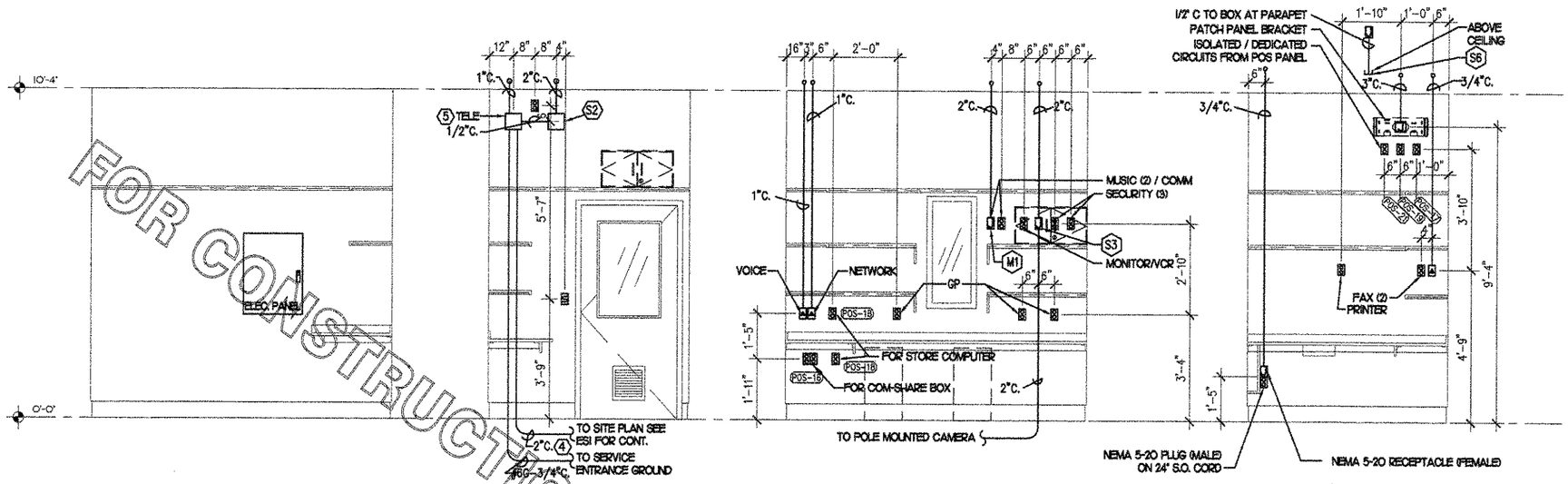
Sheet
K-3.3

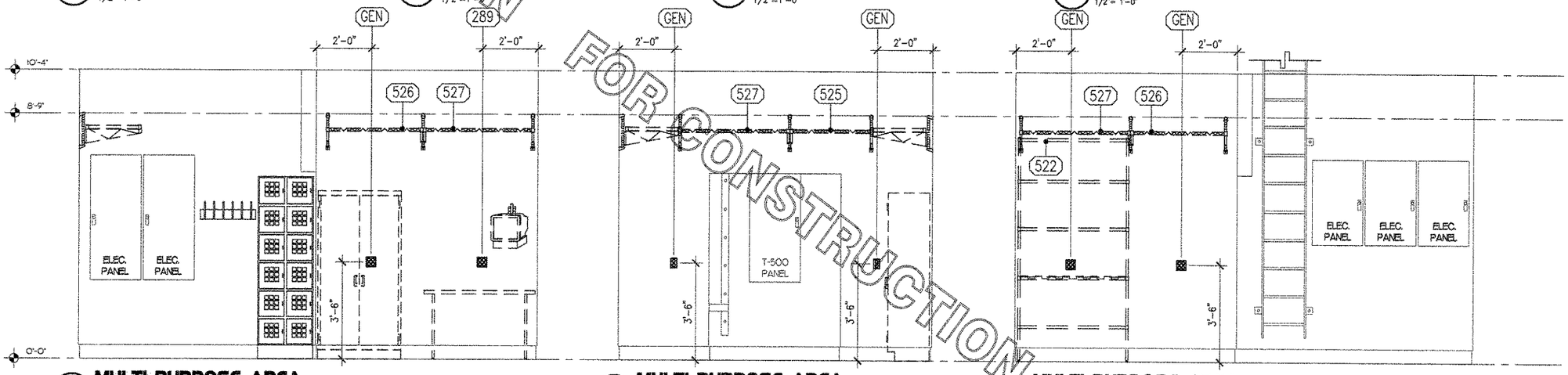


1 OFFICE
1/2"=1'-0"

2 OFFICE
1/2"=1'-0"

3 OFFICE
1/2"=1'-0"

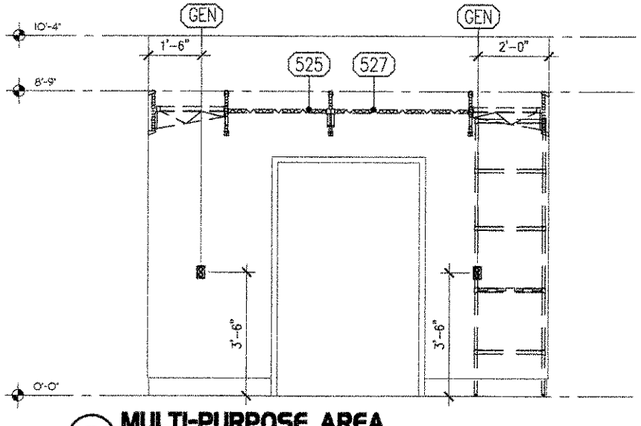
4 OFFICE
1/2"= 1'-0"



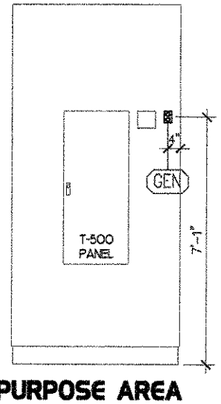
5 MULTI-PURPOSE AREA
1/2"= 1'-0"

6 MULTI-PURPOSE AREA
1/2"= 1'-0"

7 MULTI-PURPOSE AREA
1/2"= 1'-0"



8 MULTI-PURPOSE AREA
1/2"= 1'-0"



9 MULTI-PURPOSE AREA
1/2"= 1'-0"

ELEVATION LEGEND

- XXX — EQUIPMENT NUMBER
- M2 — INDICATES NOTE ON SHEET E2
- J — JUNCTION BOX
- S — SIMPLEX RECEPTACLE
- D — DUPLEX RECEPTACLE
- S — SWITCH
- P — PHONE
- T — TERMINATION OF PVC CONDUIT FOR RADIANT POS SYSTEM
- DD — DOUBLE DUPLEX RECEPTACLE
- D — SMOKE DETECTOR LED (2 GANG BOX)
- SK — SECURITY KEYPAD

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Chick-fil-A, Inc.
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

EDWARDS + HUTCHESS ARCHITECTS, P.C.
MARYLAND FARMS
219 WARD CIRCLE, SUITE 1
BRENTWOOD, TENNESSEE
37027-7593
PHONE: 615/377-3111
FAX: 615/377-0978
E-MAIL: gemail@edandharch.com
e+h ARCHITECTS

STORE
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Chesterfield, MO

SHEET TITLE
ELECTRICAL ROUGH-IN ELEVATIONS

K EDITION S06-0
DWG EDITION 05.9
REVISION –

Job No. : -----
Store : 1976
Date : -----
Drawn By : TAM
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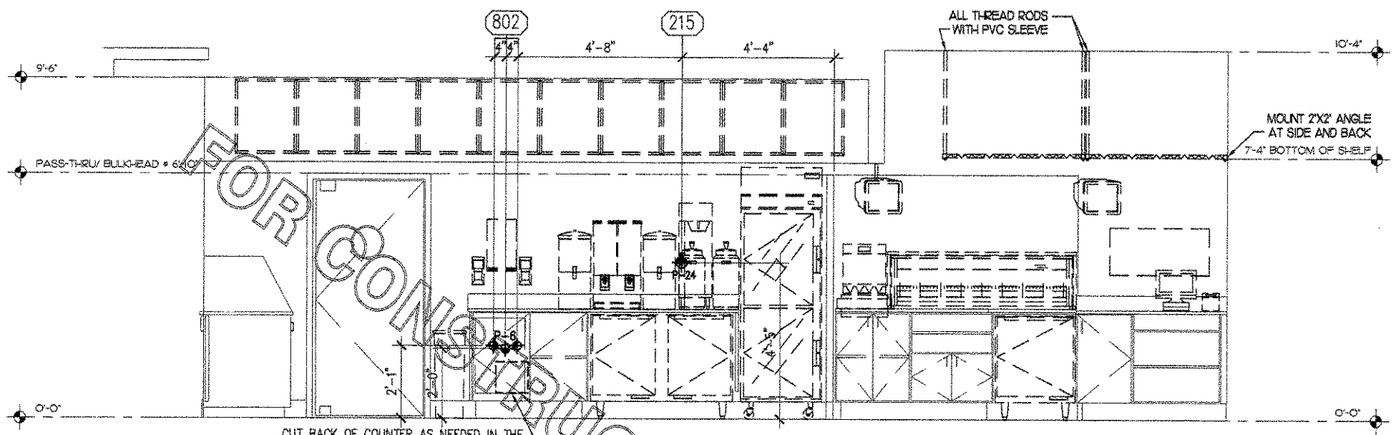
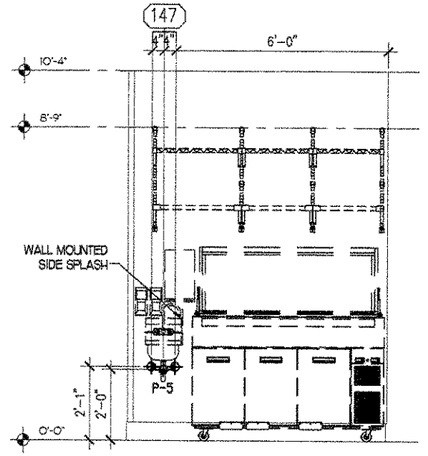
Sheet
K-3.4



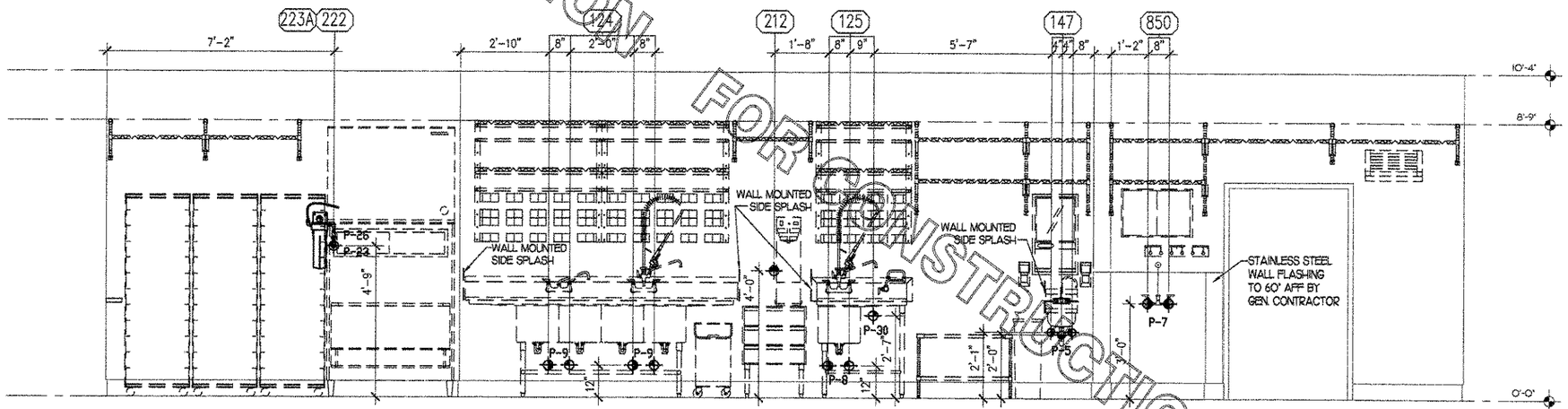
1 PLUMBING ROUGH-IN ELEVATION

1/2"=1'-0"



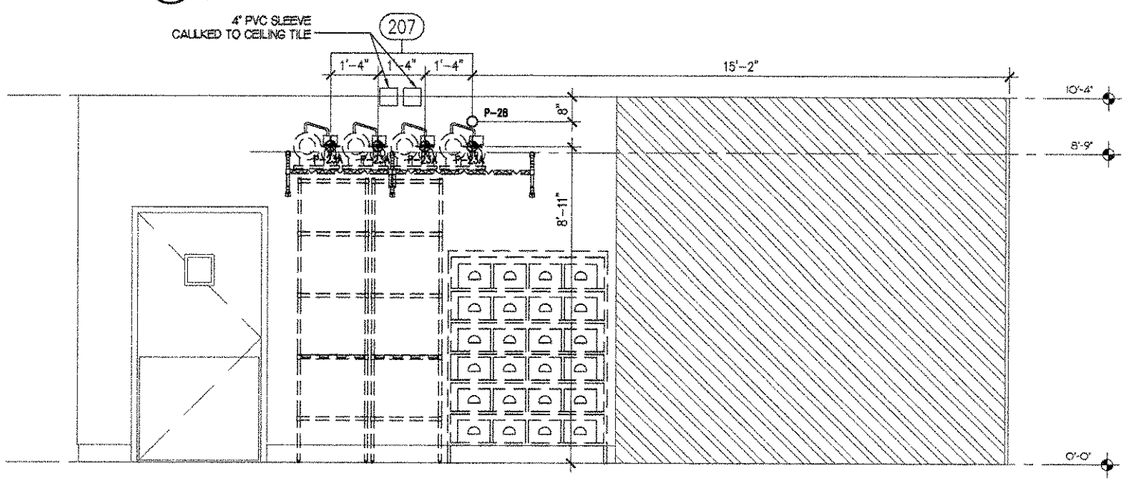
2 PLUMBING ROUGH-IN ELEVATION

1/2"=1'-0"



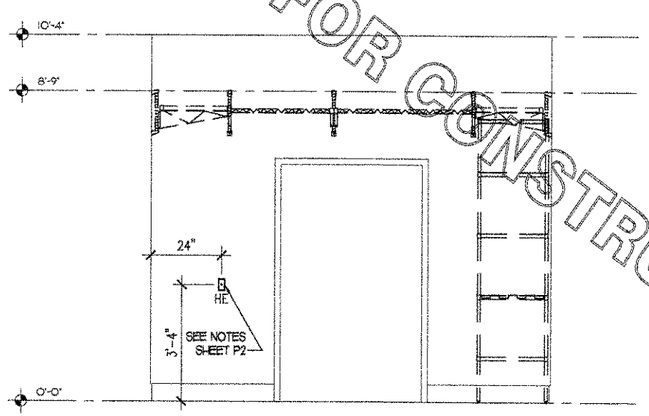
3 PLUMBING ROUGH-IN ELEVATION

1/2"=1'-0"



4 PLUMBING ROUGH-IN ELEVATION

1/2"=1'-0"



5 PLUMBING ROUGH-IN ELEVATION

1/2"=1'-0"

ELEVATION LEGEND

- XXX — EQUIPMENT NUMBER
- HOT WATER
- COLD WATER
- PRE-FILTERED WATER (PW)
- FILTERED WATER (FW)
- FILTERED WATER (FW2)
- SAN
- HE — HELIUM PORT

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Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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EDWARDS + HOTCHKISS ARCHITECTS, P.C.
TN & MD LICENSED ARCHITECTS
MARYLAND PARKS AT
239 WARD CIRCLE, SUITE 1
BRENTWOOD, TENNESSEE
37027-7583
PHONE: 615/377-3111
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E-MAIL: getmail@ewarch.com
eh ARCHITECTS

STORE
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Chesterfield Commons
Chesterfield, MO

SHEET TITLE
PLUMBING ROUGH-IN ELEVATIONS

K EDITION S06-0
DWG EDITION 05.9
REVISION -

Job No. : -----
Store : 1976
Date : -----
Drawn By : TAM
Checked By: TAM

Sheet
K-4.1

5200 Buffington Road
Atlanta, Georgia 30349-2998
Telephone: (404) 765-8000

Drawing Index

Fixture Sheets

F0.DI Drawing Index
F0.KP Key Plan
F0.CP Concrete Curb Plan
F01 Serving, Drive-Thru, And Back Counter Plan And Curb Plan
F02 Serving Counter Elevations And Sections
F03 Safe Cabinet and VCR/Monitor Shelf
F04 Order Prep Station & Specials Table with Phenolic Cabinets
F05 Drive-Thru Cabinets, Rear Cabinet, Sneaker Keepers And Mop Cabinet
F06 Office Desktop And Shelving
F07 Dining Room Condiment Unit - Elevations
F08 Dining Room Condiment Unit - Plans And Details
F09 Dining Room Condiment Unit - Elevations And Sections
F10 Restroom Vanities & Standard Order Prep Station - SS Components
F11 Restroom Storage Cabinet & Sneaker Keeper
F12 Network Cabinet Elevations
F13 Network Cabinet Section

Notes

Laminates
Black - 1590-60 By Wilsonart
Sunstone - 4781-52 By Wilsonart
Huntington Maple - 7929-60 By Wilsonart
Natural Almond - D30-60 By Wilsonart
Satin Oxide - 4832-07 By Wilsonart
Wild Cherry - 7054-60 By Wilsonart

Solid Surface
Midnight Melange-9091-ML By Wilsonart
Quarry Melange-9041-ML By Wilsonart

G.C. TO VERIFY CRITICAL DIMENSIONS ON F0.CP

MAR 2 4 2007

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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Mark Date By
Mark Date By
Mark Date By

Seal

Clayton Fixture Company, Inc.
"Quality and Service Since 1963"
Store and Restaurant Equipment
Box 157 - 4820 Highway 42 - Ellenwood, Georgia 30294
Phone: (404) 361-1665 - Fax: (404) 361-1169

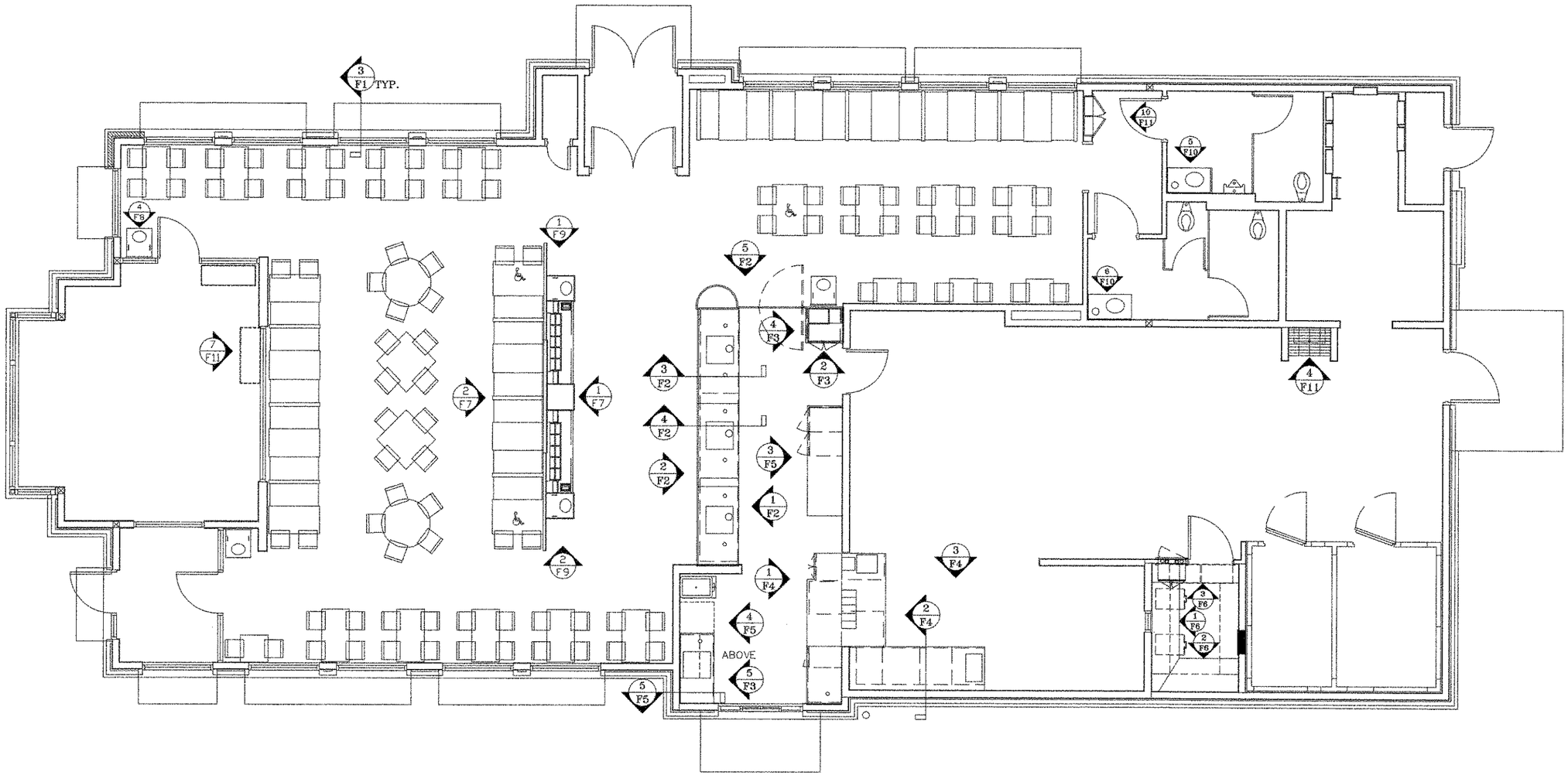
STORE
CHESTERFIELD
FSU
CHESTERFIELD
MO.

SHEET TITLE
DRAWING
INDEX

DWG EDITION ...
☐Preliminary
☐80% Submittal
☒For Construction

Job No. :1976_07
Store : #1976
Date :2/27/07
Drawn By : DO
Checked By: ---

Sheet
F0.DI



1 FO.KP **KEY PLAN** SCALE: 1/4" = 1'-0"

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5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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Clayton Fixture Company, Inc.

Quality Fixture Services Since 1903
Store Fixtures • Millwork • Paint
Box 157 – 4820 Highway 42 – Ellenwood, Georgia 30294
Phone: (404) 363-1665 Fax: (404) 363-1160

STORE

CHESTERFIELD
FSU
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MO.

SHEET TITLE

KEY PLAN

DWG EDITION ...

☐Preliminary
☐80% Submittal
☒For Construction

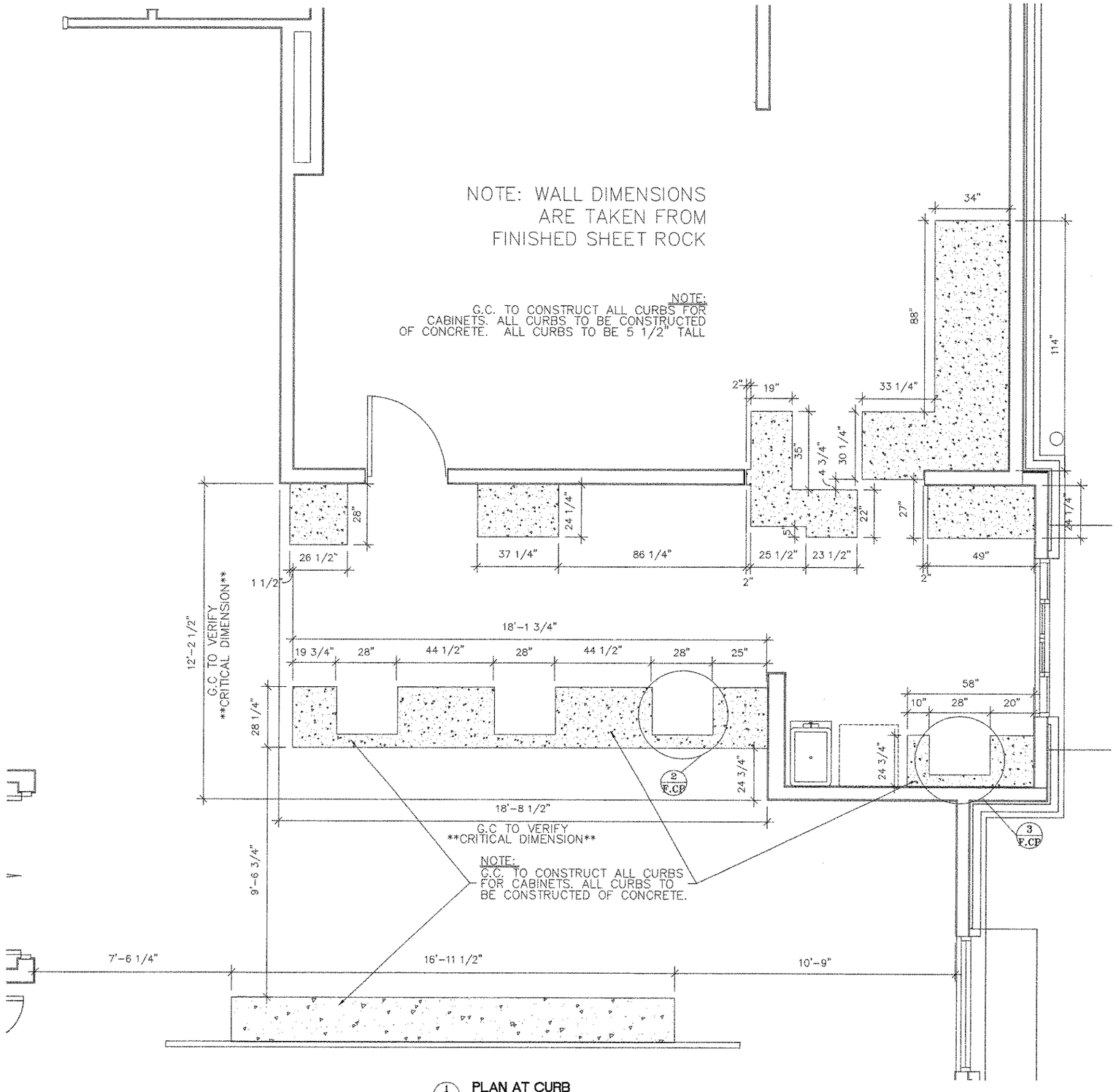
Job No.	:1976_07
Store	: #1976
Date	:2/27/07
Drawn By	: DQ
Checked By:	--

Sheet

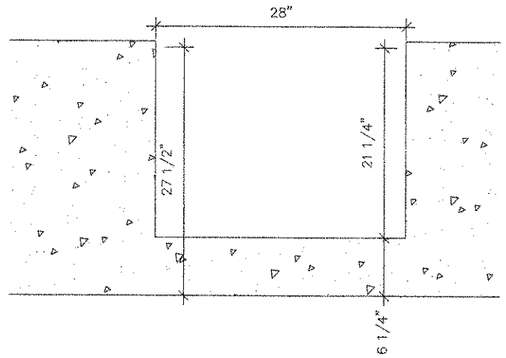
FO.KP

NOTE: WALL DIMENSIONS
ARE TAKEN FROM
FINISHED SHEET ROCK

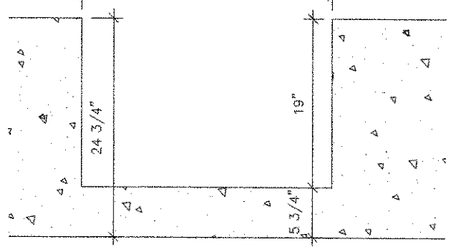
NOTE:
G.C. TO CONSTRUCT ALL CURBS FOR CABINETS. ALL CURBS TO BE CONSTRUCTED OF CONCRETE. ALL CURBS TO BE 5 1/2" TALL



1 F.CP **PLAN AT CURB**
SCALE: 1/2"=1'-0"



2 F.CP **BEV. COUNTER CURB**
SCALE: 1 1/2"=1'-0"



3 F.CP **DT BEV. CAB CURB**
SCALE: 1 1/2"=1'-0"

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

Mark	Date	By

Mark	Date	By

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Clayton Fixture Company, Inc.
"Quality and Service Since 1965"
Stores and Restaurant Equipment
Box 157 – 4820 Highway 42 – Ellenwood, Georgia 30294
Phone: (404) 363-1665 Fax: (404) 363-1160

STORE
CHESTERFIELD
FSU
CHESTERFIELD
MO.

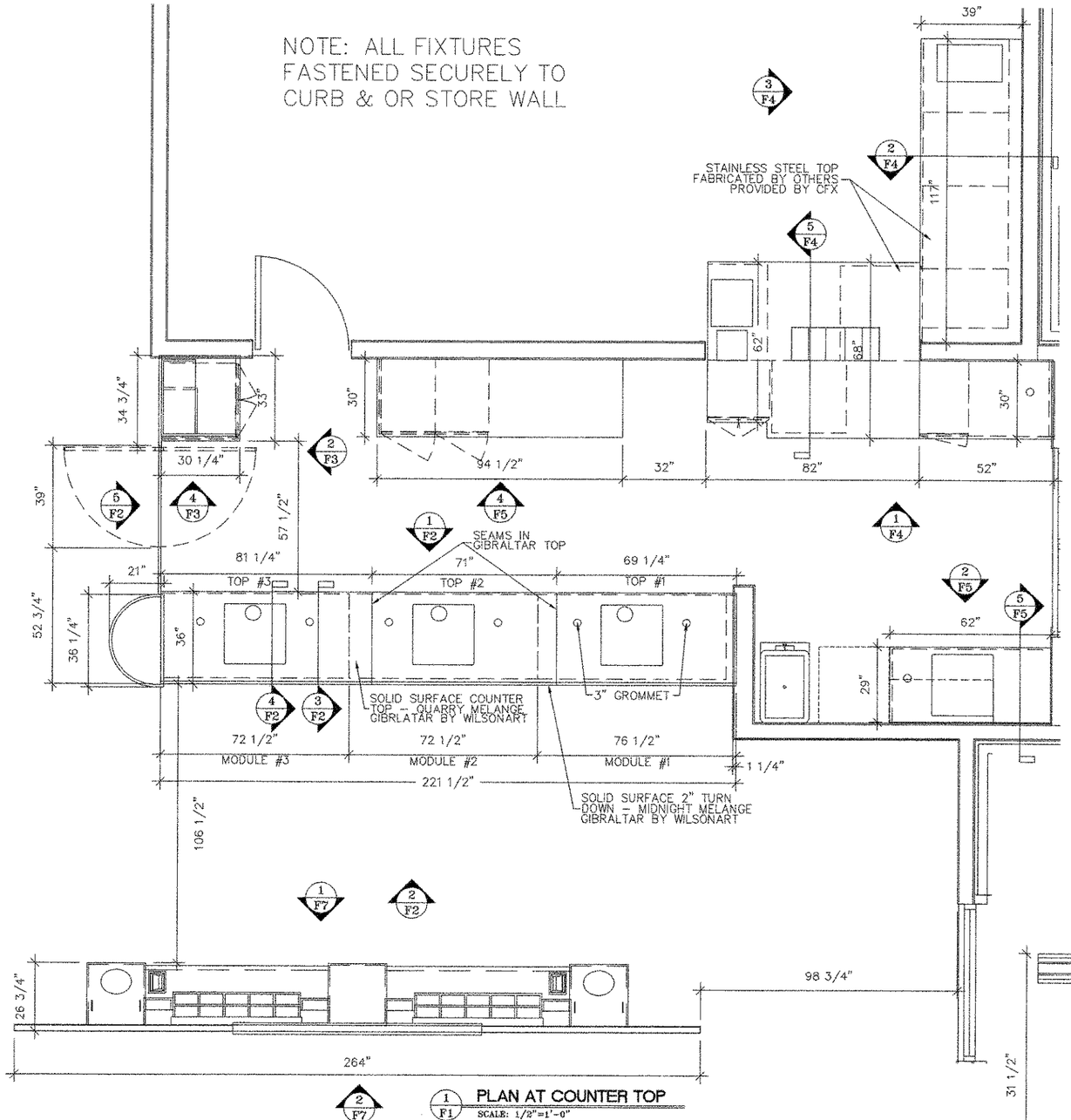
SHEET TITLE
COUNTR. PLAN
& CURB PLAN

DWG EDITION ...
☐Preliminary
☐80% Submittal
☒For Construction

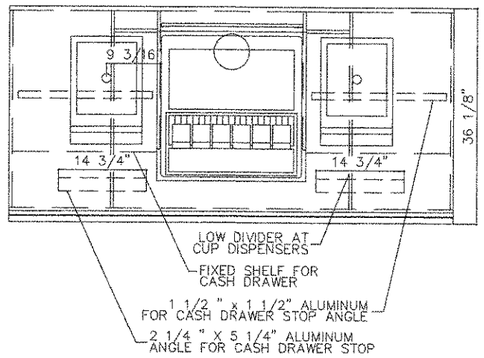
Job No. :1976 07
Store : #1976
Date :2/27/07
Drawn By : DQ
Checked By: ----

Sheet
F0.CP

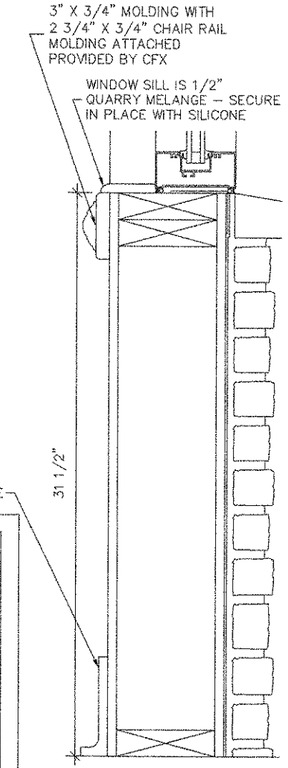
NOTE: ALL FIXTURES FASTENED SECURELY TO CURB & OR STORE WALL



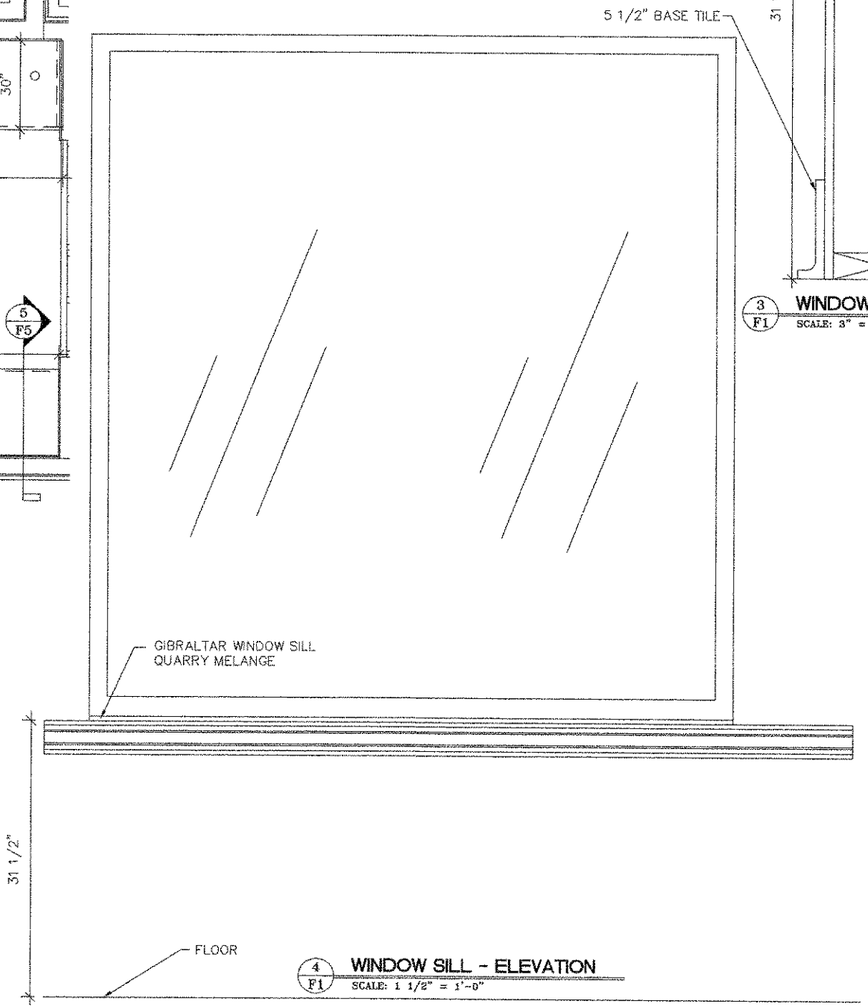
1/F1 **PLAN AT COUNTER TOP**
SCALE: 1/2"=1'-0"



2/F1 **SERVING COUNTER MODULE**
SCALE: 1"=1'-0"



3/F1 **WINDOW SILL DETAIL**
SCALE: 3" = 1'-0"



4/F1 **WINDOW SILL - ELEVATION**
SCALE: 1 1/2" = 1'-0"

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5200 Buffington Rd.
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30349-2998

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Clayton Fixture Company, Inc.
"Quality and Service Since 1963"
Store and Restaurant Equipment
Box 157 - 4820 Highway 42 - Ellenwood, Georgia 30294
Phone: (404) 363-1695 Fax: (404) 363-1160

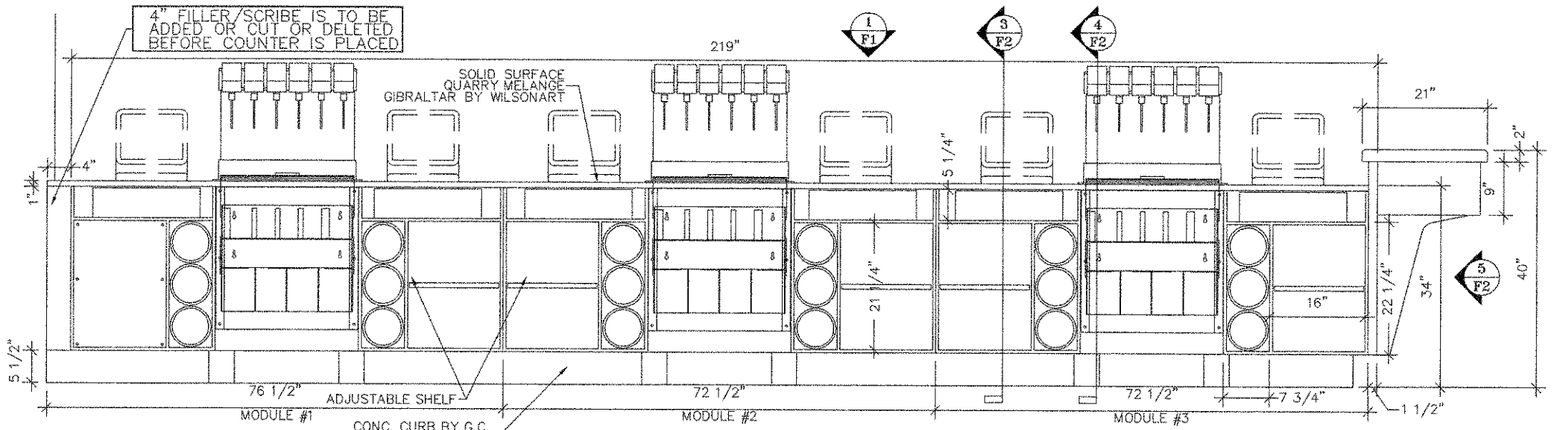
STORE
CHESTERFIELD FSU
CHESTERFIELD MO.

SHEET TITLE
COUNTER PLAN & CURB PLAN

DWG EDITION ...
- ☐ Preliminary
- ☐ 80% Submittal
- ☑ For Construction

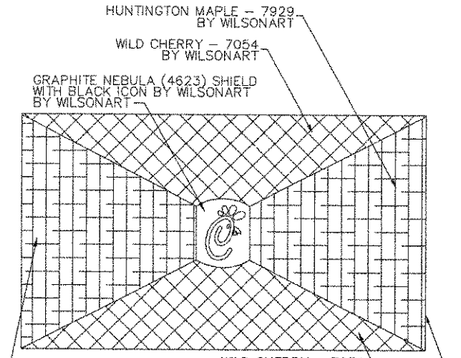
Job No.	:1976_07
Store	: #1976
Date	:2/27/07
Drawn By	: DO
Checked By:	---

Sheet
F1

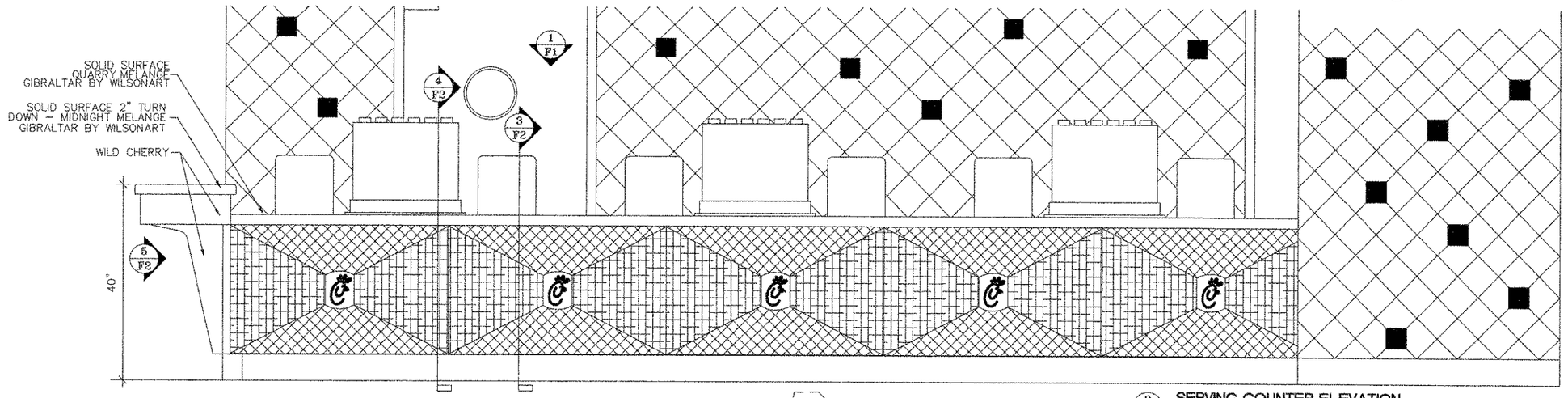


1/F1 1/F2 3/F2 4/F2 5/F2

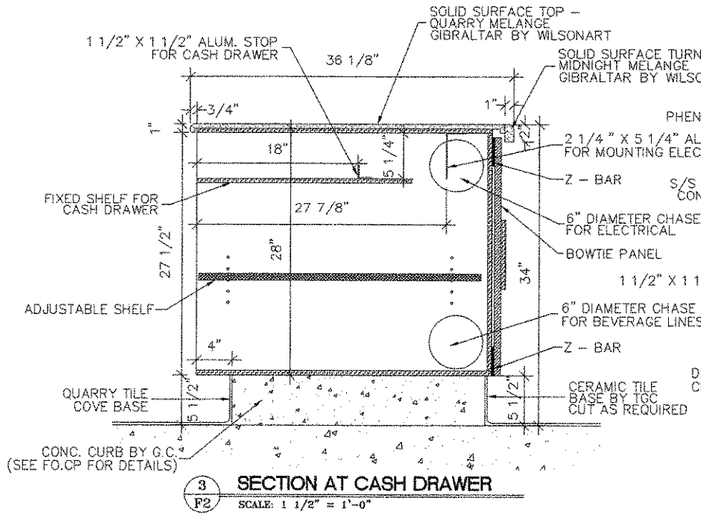
1/F2 SERVING COUNTER ELEVATION
SCALE: 1"=1'-0"



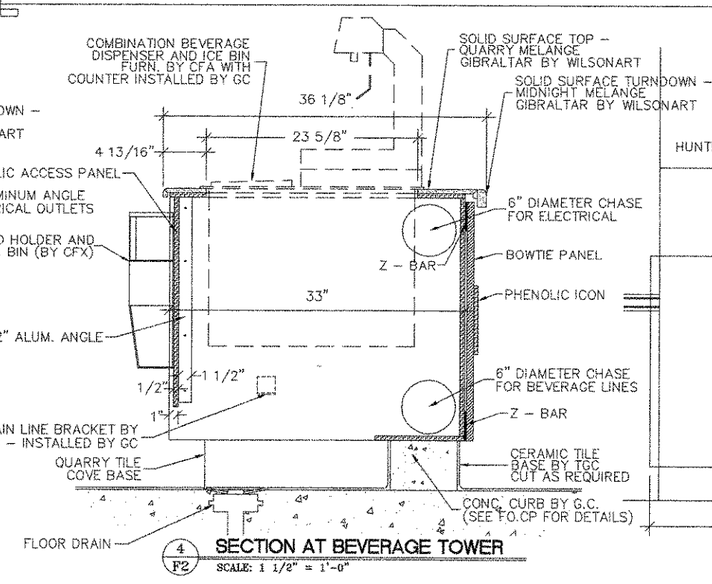
2/F2 BOWTIE PANEL
SCALE: 1 1/2" = 1'-0"



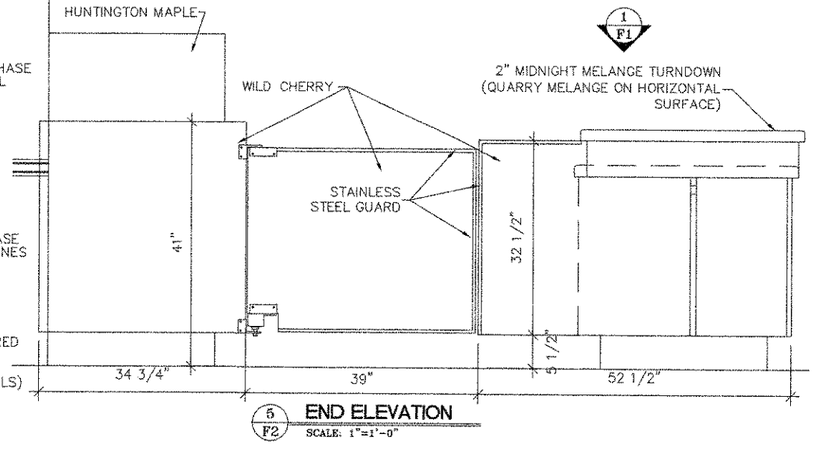
2/F2 SERVING COUNTER ELEVATION
SCALE: 1"=1'-0"



3/F2 SECTION AT CASH DRAWER
SCALE: 1 1/2" = 1'-0"



4/F2 SECTION AT BEVERAGE TOWER
SCALE: 1 1/2" = 1'-0"



1/F1

5/F2 END ELEVATION
SCALE: 1"=1'-0"

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

Seal

Clayton Fixture Company, Inc.
Quality and Service Since 1963
Store and Restaurant Equipment
Box 157 – 4820 Highway 42 – Ellenwood, Georgia 30294
Phone: (404) 363-1885 Fax: (404) 363-1180

STORE
CHESTERFIELD FSU
CHESTERFIELD MO.

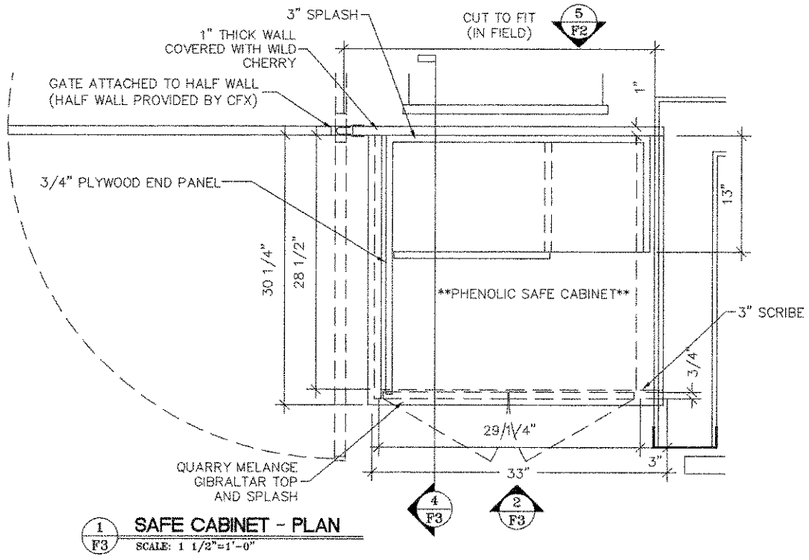
SHEET TITLE
COUNTER ELEV. & SECTIONS

DWG EDITION ...

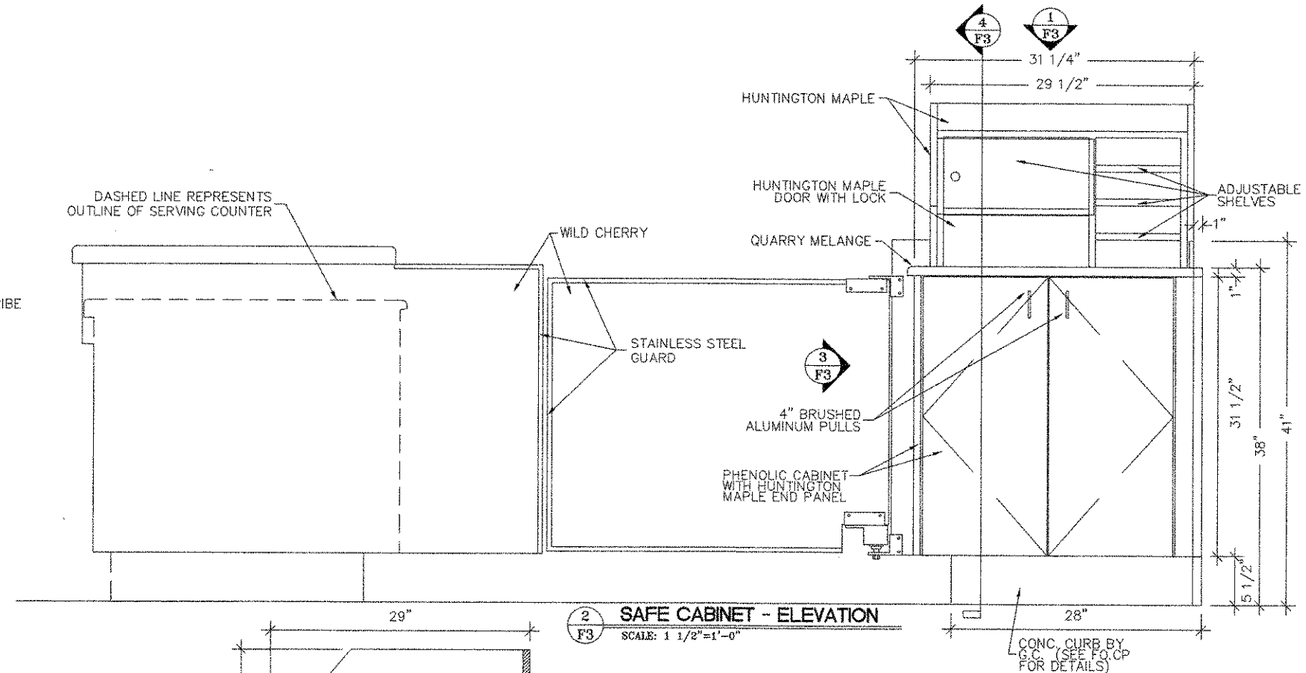
☐Preliminary
☐80% Submittal
☑For Construction

Job No. :1976_07
Store : #1976
Date :2/27/07
Drawn By : DQ
Checked By: ---

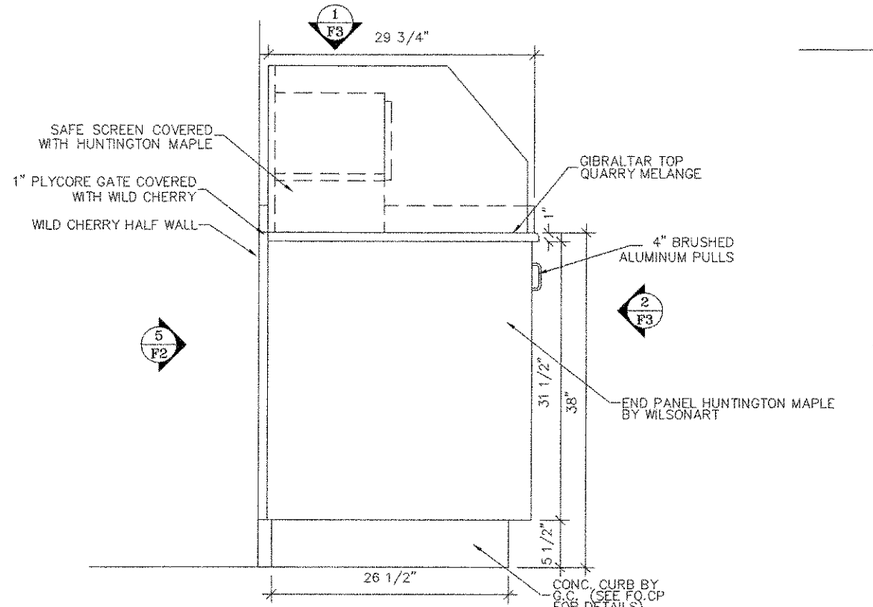
Sheet
F2



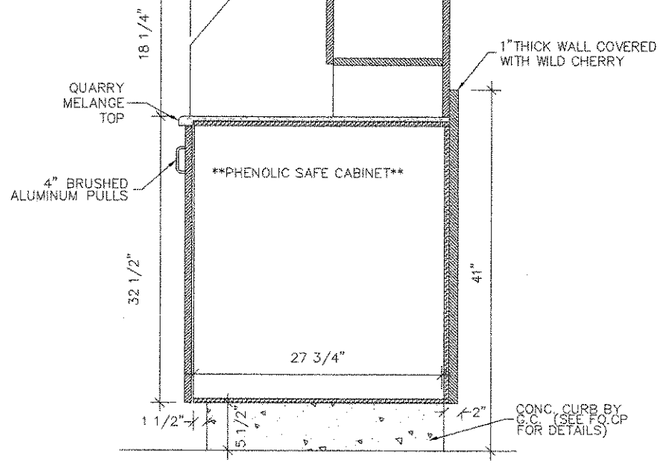
1 F3 **SAFE CABINET - PLAN**
SCALE: 1 1/2"=1'-0"



2 F3 **SAFE CABINET - ELEVATION**
SCALE: 1 1/2"=1'-0"

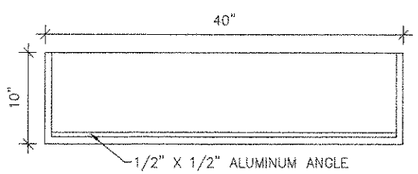


3 F3 **SAFE CABINET - ELEVATION**
SCALE: 1 1/2"=1'-0"

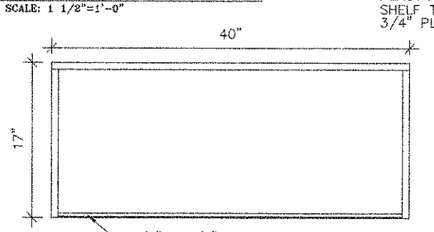


4 F3 **SAFE CABINET - SECTION**
SCALE: 1 1/2"=1'-0"

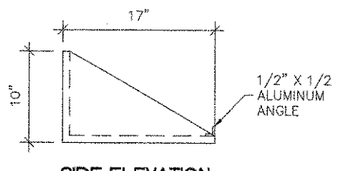
NOTE: ALL SURFACES TO BE COVERED WITH PLASTIC LAMINATE - HUNTINGTON MAPLE BY WILSONART SHELF TO BE TOTALLY CONSTRUCTED OF 3/4" PLYWOOD.



FRONT ELEVATION



PLAN



SIDE ELEVATION

5 F3 **COFFEE WARMER AND MONITOR SHELF**
SCALE: 1 1/2"=1'-0"

5200 Buffington Rd.
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Revisions:

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Clayton Fixture Company, Inc.
Quality and Service Since 1963
Store and Restaurant Equipment
Box 157 - 4820 Highway 42 - Ellenwood, Georgia 30294
Phone: (404) 363-1885 Fax: (404) 363-1160

STORE
CHESTERFIELD
FSU
CHESTERFIELD
MO.

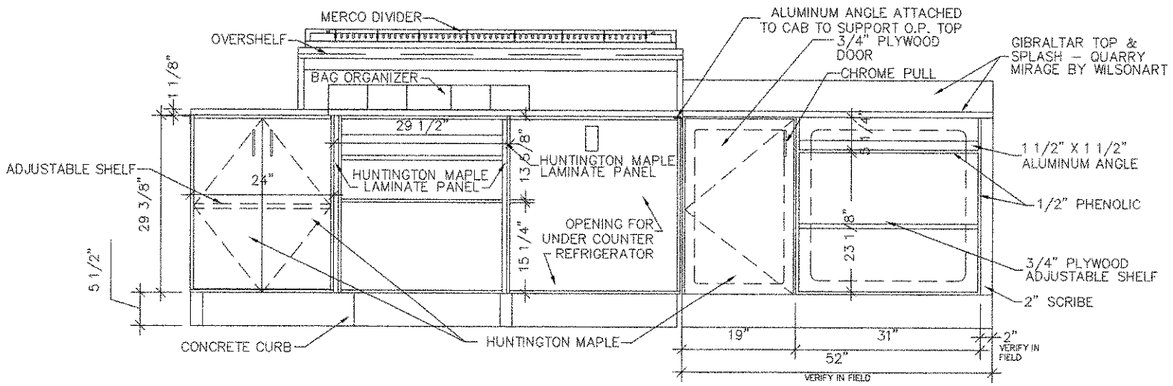
SHEET TITLE
SAFE CAB. &
VCR/MON. SHEL

DWG EDITION ...

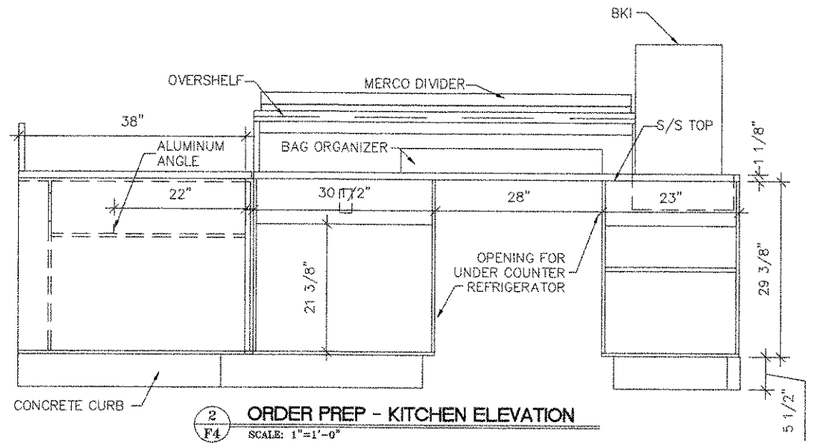
☐Preliminary
☐80% Submittal
☒For Construction

Job No. :1976 07
Store : #1976
Date :2/27/07
Drawn By : DQ
Checked By: ---

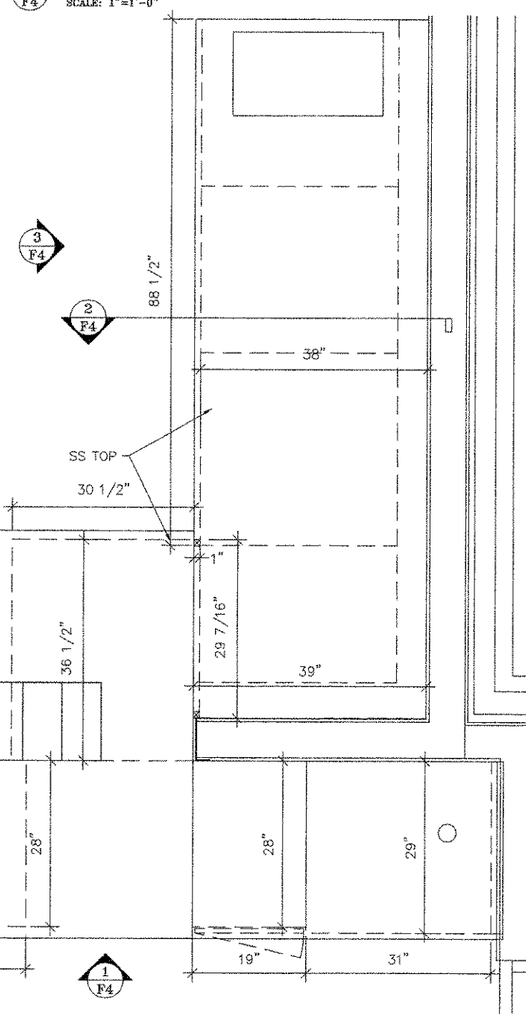
Sheet
F3



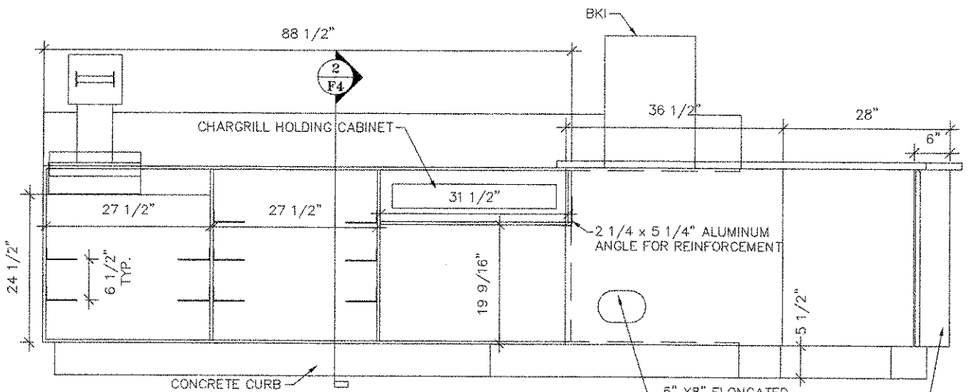
1/F4 ORDER PREP - SERVER ELEVATION
SCALE: 1"=1'-0"



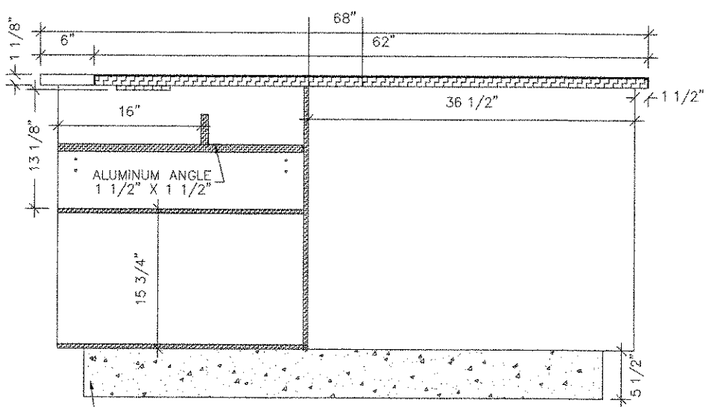
2/F4 ORDER PREP - KITCHEN ELEVATION
SCALE: 1"=1'-0"



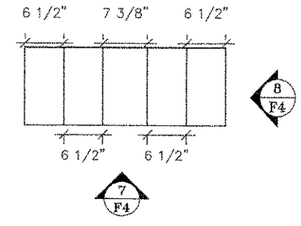
4/F4 ORDER PREP-SPEC. TABLE-PLAN
SCALE: 1"=1'-0"



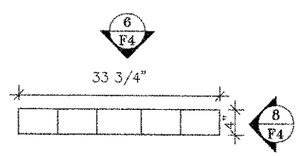
3/F4 SPECIALS TABLE - KITCHEN ELEVATION
SCALE: 1"=1'-0"



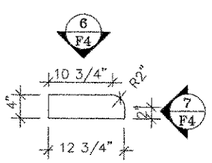
5/F4 ORDER PREP STATION - SECTION
SCALE: 1 1/2"=1'-0"
CONCRETE CURB BY G.C.



6/F4 BAG HOLDER (PLAN)
SCALE: 1"=1'-0"
NOTES:
BAG HOLDER TO BE CONSTRUCTED OF 16 GA. STAINLESS STEEL.



7/F4 BAG HOLDER ELEV.
SCALE: 1"=1'-0"



8/F4 BAG HOLDER ELEV. (SIDE)
SCALE: 1"=1'-0"

Chick-fil-A
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30349-2998

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Store and Restaurant Equipment
Box 157 – 4820 Highway 42 – Ellenwood, Georgia 30294
Phone: (404) 363-1165 Fax: (404) 363-1160

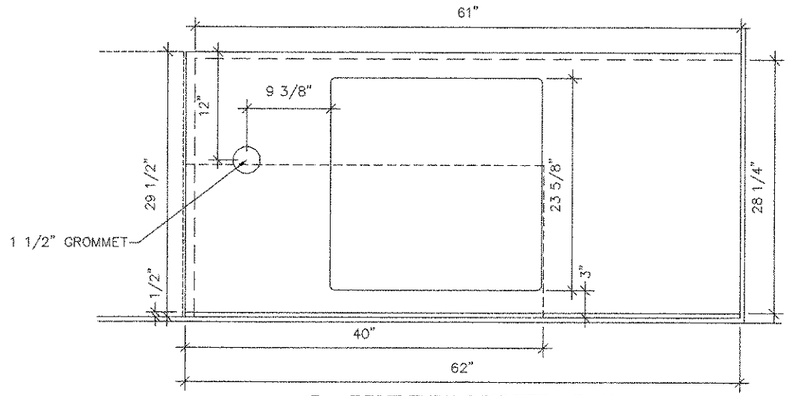
STORE
CHESTERFIELD
FSU
CHESTERFIELD
MO.

SHEET TITLE
SPEC. TABLE
W/PHEN. CAB.

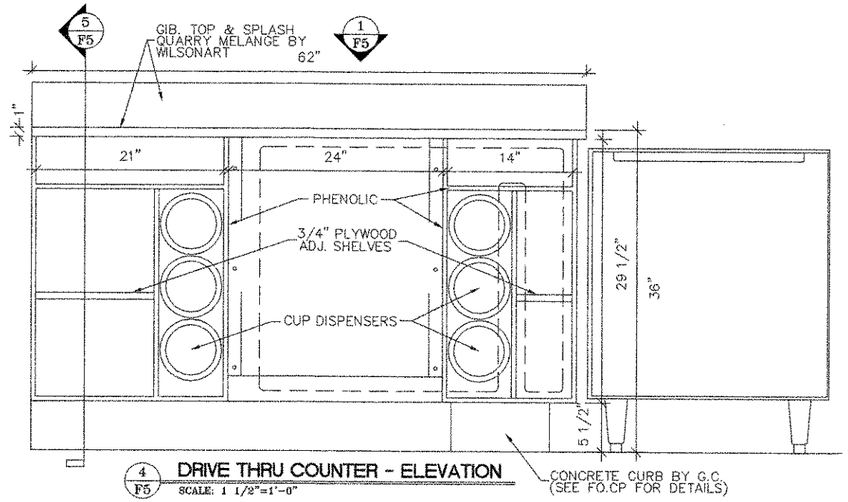
DWG EDITION ...
☐Preliminary
☐80% Submittal
☑For Construction

Job No. :1976 07
Store : #1976
Date :2/27/07
Drawn By : DO
Checked By: ---

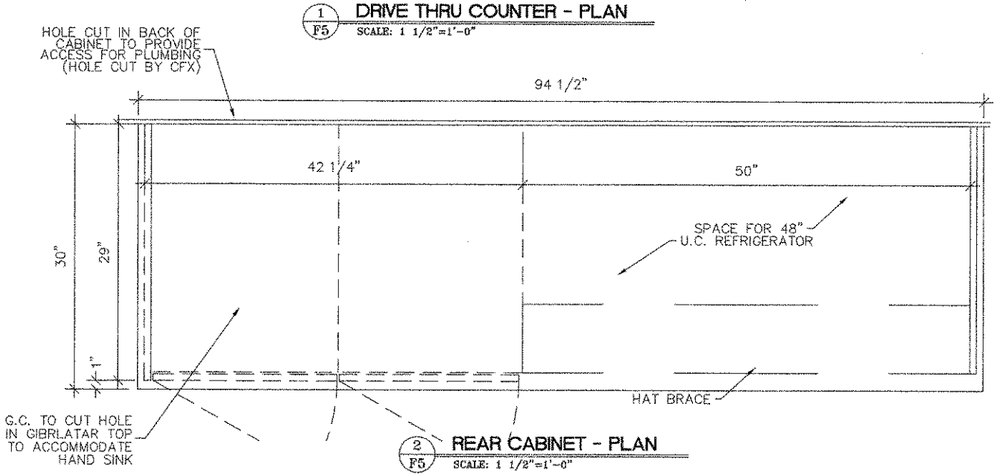
Sheet
F4



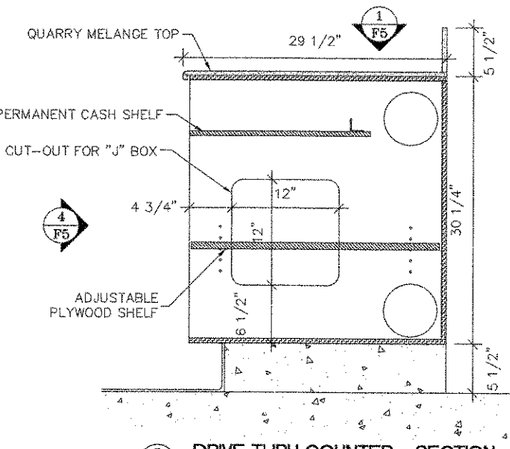
1/F5 DRIVE THRU COUNTER - PLAN
SCALE: 1 1/2"=1'-0"



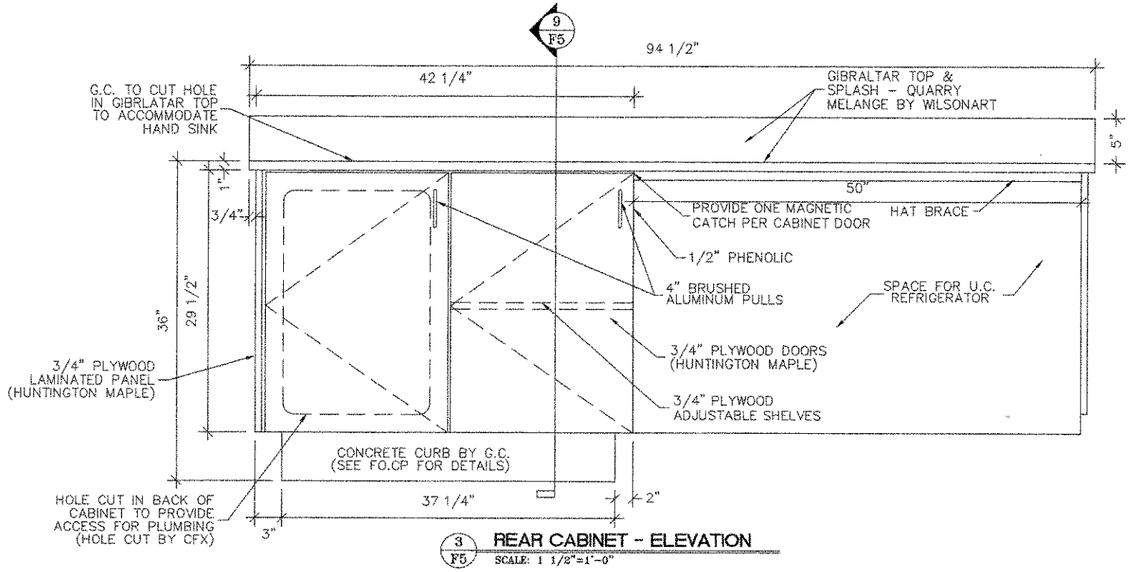
4/F5 DRIVE THRU COUNTER - ELEVATION
SCALE: 1 1/2"=1'-0"



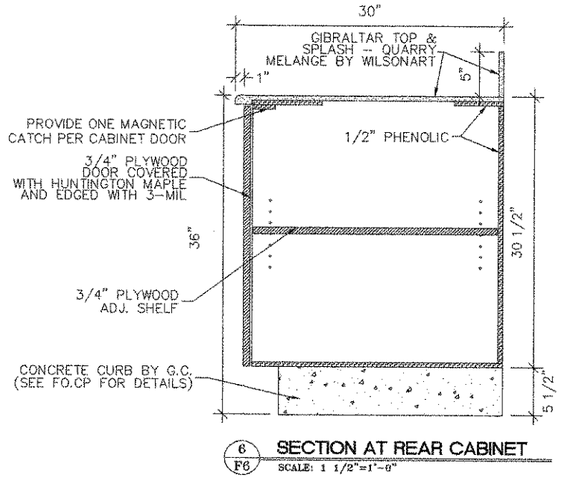
2/F5 REAR CABINET - PLAN
SCALE: 1 1/2"=1'-0"



5/F5 DRIVE THRU COUNTER - SECTION
SCALE: 1 1/2"=1'-0"



3/F5 REAR CABINET - ELEVATION
SCALE: 1 1/2"=1'-0"



6/F6 SECTION AT REAR CABINET
SCALE: 1 1/2"=1'-0"

Chick-fil-A
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Atlanta Georgia,
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Mark	Date	By
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Mark	Date	By
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"Quality and Service Since 1945"
Store and Restaurant Equipment
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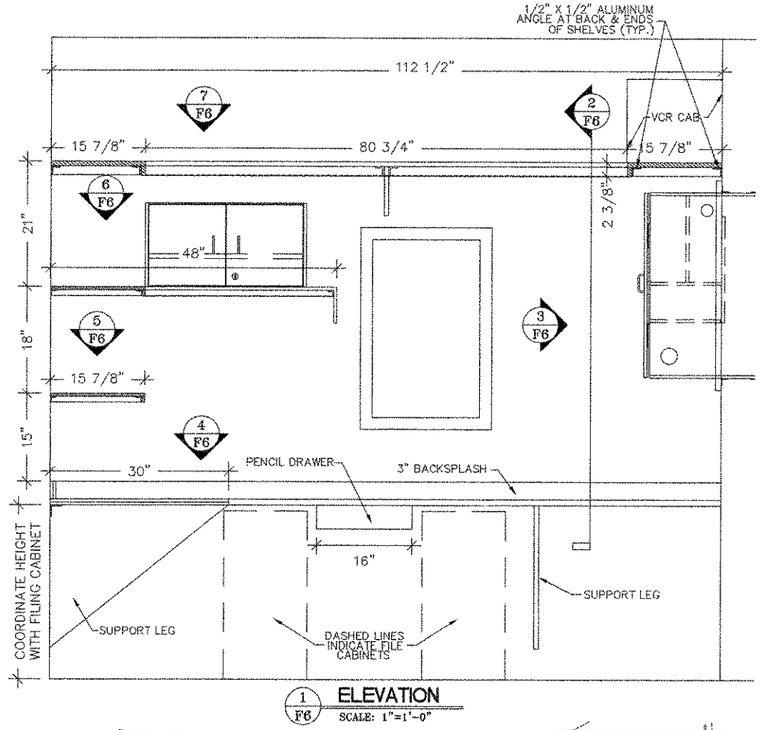
STORE
CHESTERFIELD
FSU
CHESTERFIELD
MO.

SHEET TITLE
DT CABS.
& REAR CABS.

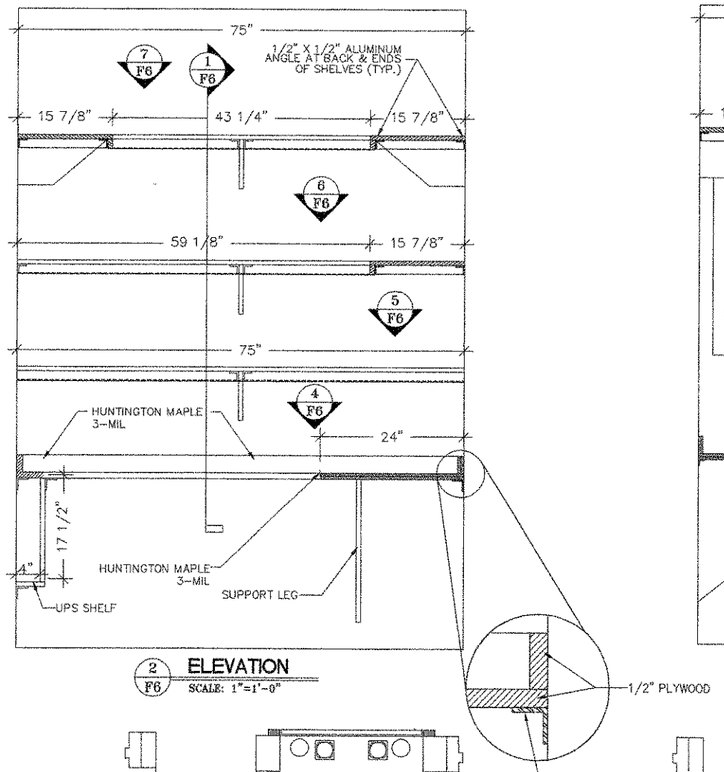
DWG EDITION ...
☐Preliminary
☐80% Submittal
☒For Construction

Job No. :1976_07
Store : #1976
Date :2/27/07
Drawn By : DO
Checked By: ---

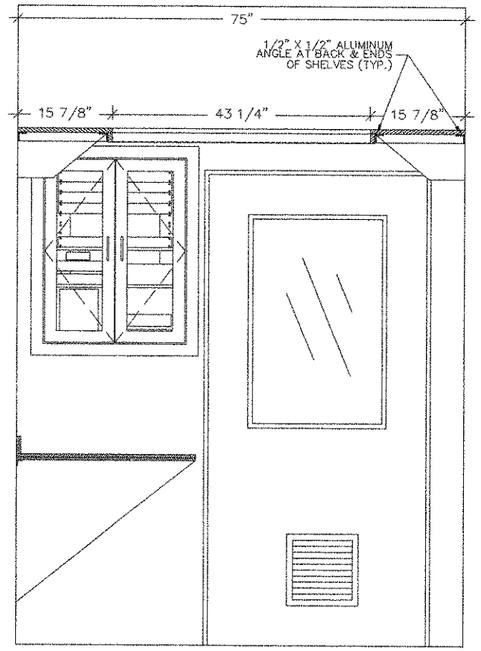
Sheet
F5



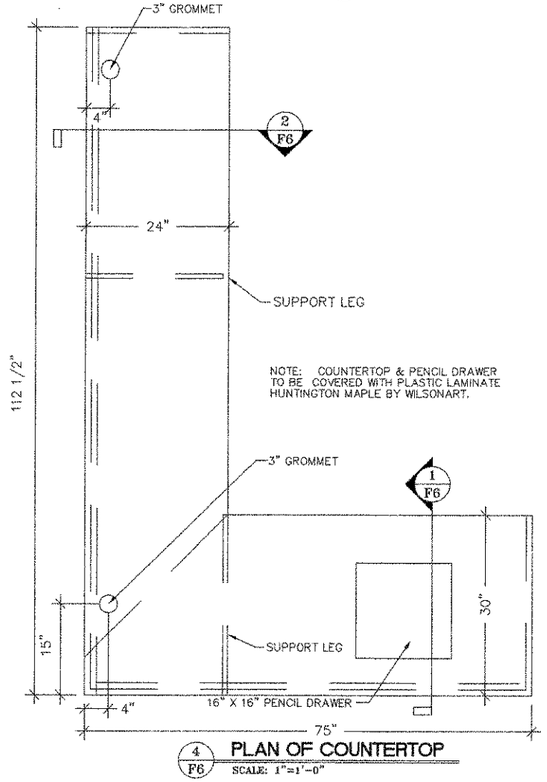
1 F6 ELEVATION
SCALE: 1"=1'-0"



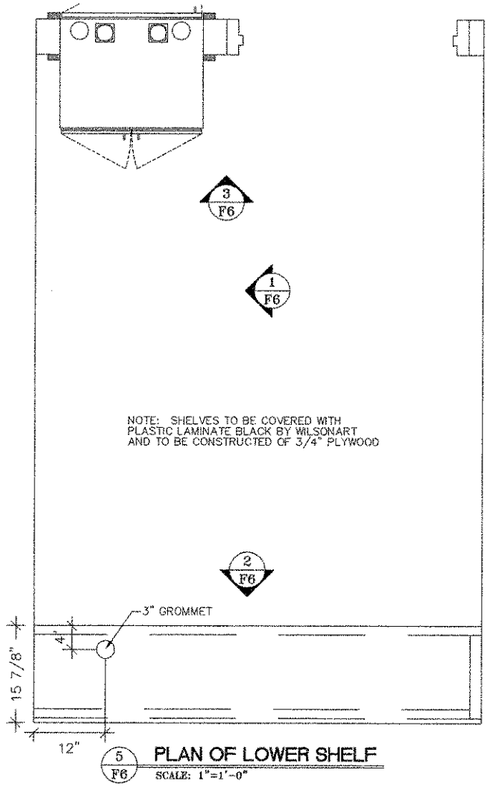
2 F6 ELEVATION
SCALE: 1"=1'-0"



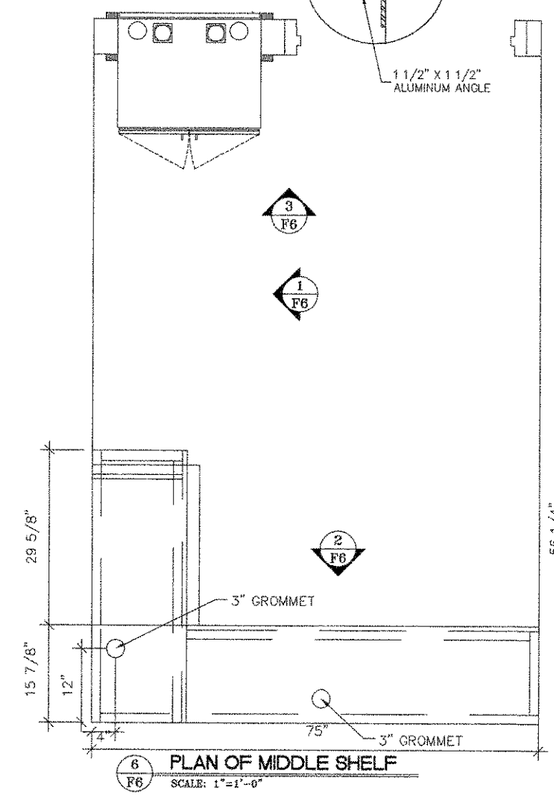
3 F6 ELEVATION
SCALE: 1"=1'-0"



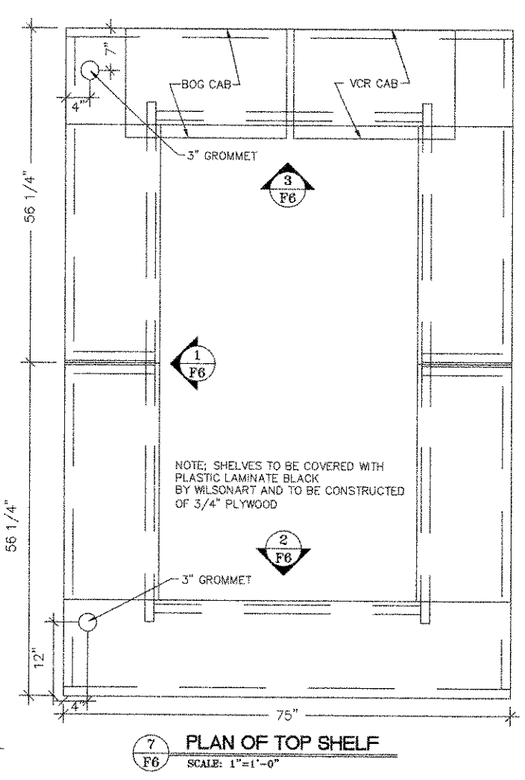
4 F6 PLAN OF COUNTERTOP
SCALE: 1"=1'-0"



5 F6 PLAN OF LOWER SHELF
SCALE: 1"=1'-0"



6 F6 PLAN OF MIDDLE SHELF
SCALE: 1"=1'-0"



7 F6 PLAN OF TOP SHELF
SCALE: 1"=1'-0"

Chick-fil-A
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30349--2998

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"Quality and Service Since 1963"
Store and Restaurant Equipment
Box 157 – 4820 Highway 42 – Ellenwood, Georgia 30294
Phone: (404) 363-1865 Fax: (404) 363-1160

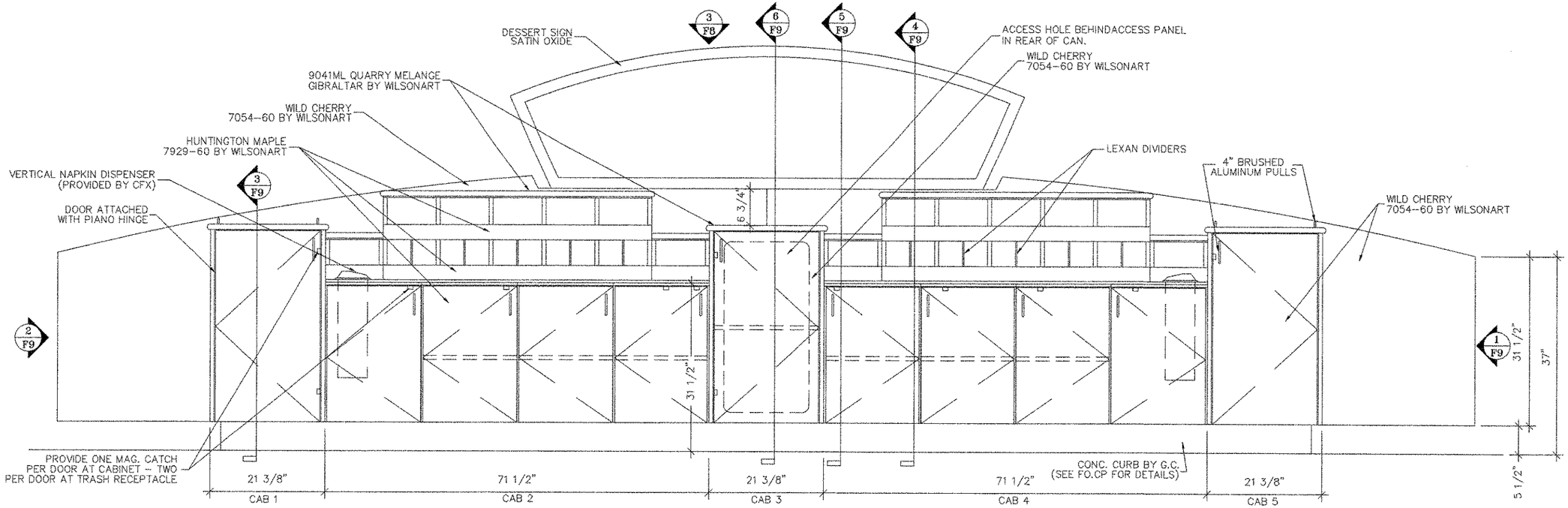
STORE
CHESTERFIELD FSU
CHESTERFIELD MO.

SHEET TITLE
OFFICE DESKTOP & SHELVING

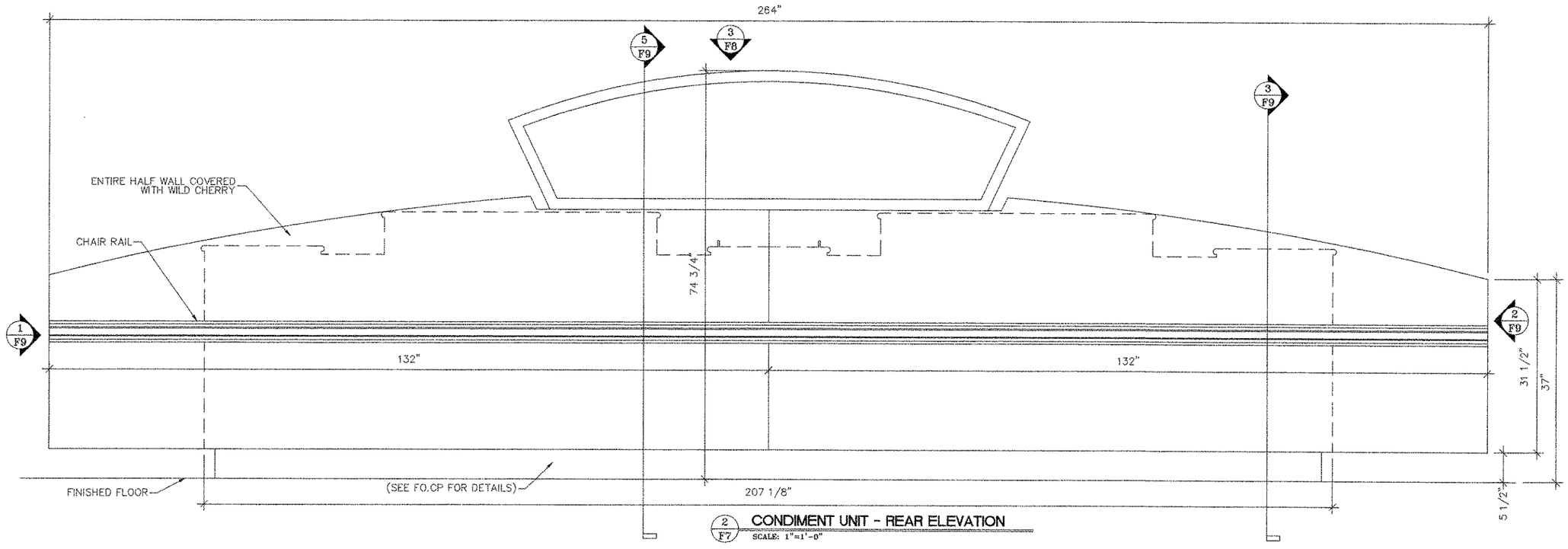
DWG EDITION ...
- ☐ Preliminary
- ☐ 80% Submittal
- ☑ For Construction

Job No. :1976 07
Store : #1976
Date :2/27/07
Drawn By : DQ
Checked By: --

Sheet
F6



1 F7 **CONDIMENT UNIT - FRONT ELEVATION**
SCALE: 1"=1'-0"



2 F7 **CONDIMENT UNIT - REAR ELEVATION**
SCALE: 1"=1'-0"

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Atlanta Georgia,
30349-2998

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Mark	Date	By
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Mark	Date	By
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Clayton Fixture Company, Inc.
"Quality and Service Since 1962"
Store and Restaurant Equipment
Box 157 - 4820 Highway 42 - Ellenwood, Georgia 30294
Phone: (404) 363-1665 Fax: (404) 363-1160

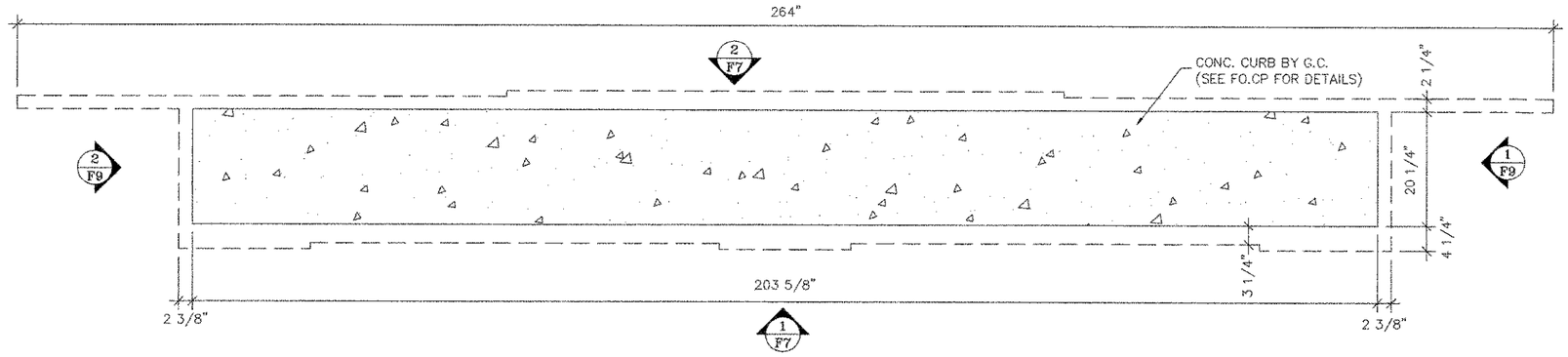
STORE
CHESTERFIELD FSU
CHESTERFIELD MO.

SHEET TITLE
CONDIMENT ELEVATIONS

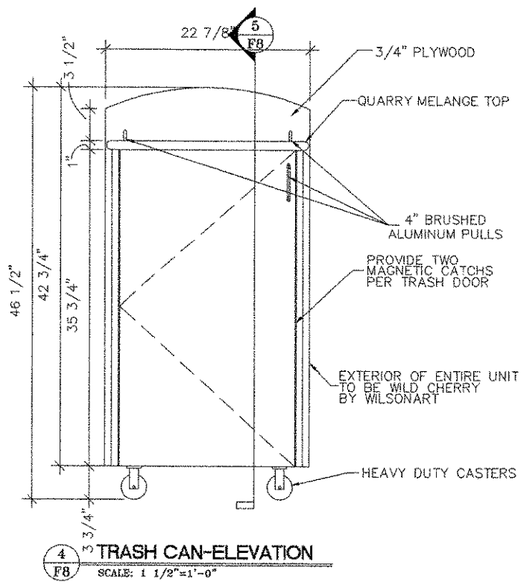
DWG EDITION ...
- ☐ Preliminary
- ☐ 80% Submittal
- ☒ For Construction

Job No. : 1976_07
Store : #1976
Date : 2/27/07
Drawn By : DO
Checked By: ---

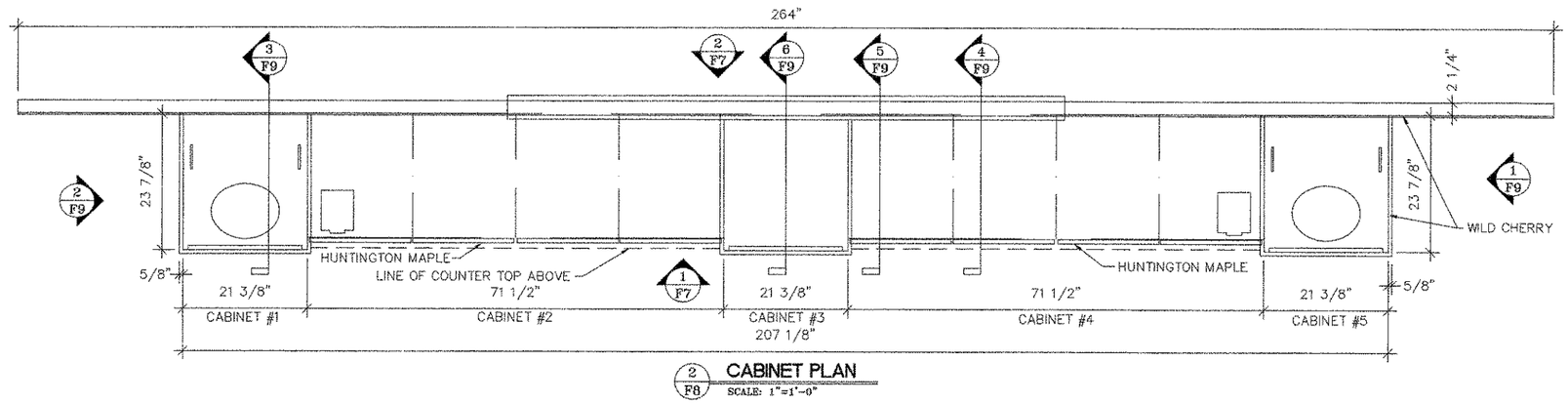
Sheet
F7



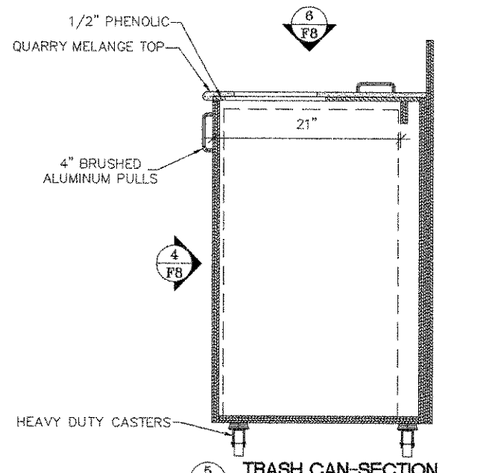
1/F8 **CURB PLAN**
SCALE: 1"=1'-0"



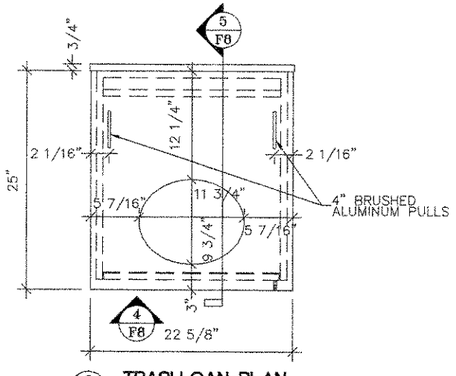
4/F8 **TRASH CAN-ELEVATION**
SCALE: 1 1/2"=1'-0"



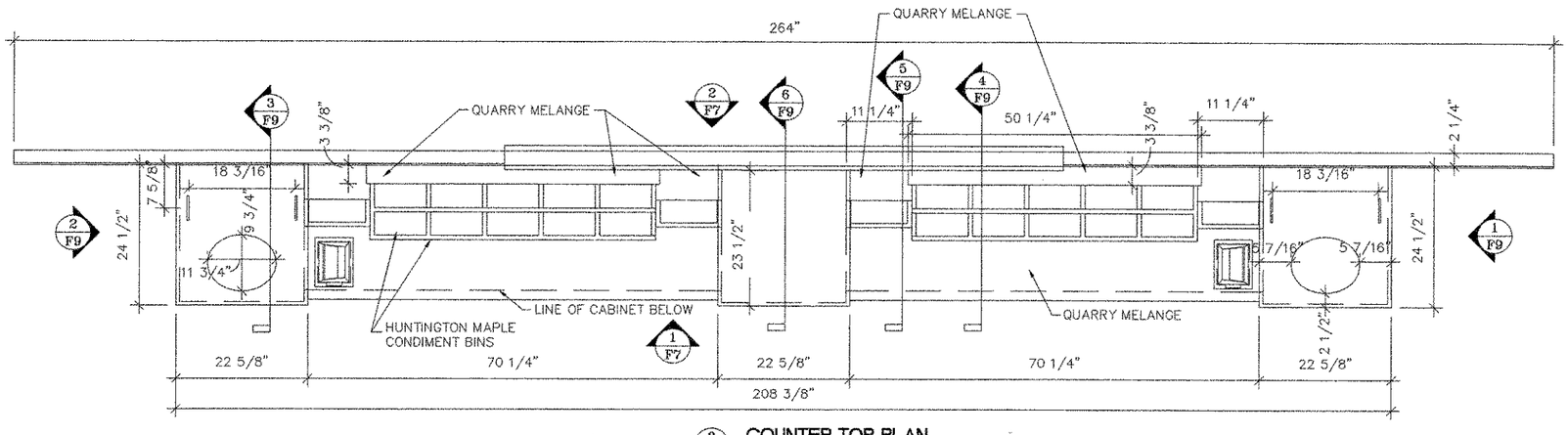
2/F8 **CABINET PLAN**
SCALE: 1"=1'-0"



5/F8 **TRASH CAN-SECTION**
SCALE: 1 1/2"=1'-0"



6/F8 **TRASH CAN-PLAN**
SCALE: 1 1/2"=1'-0"



3/F8 **COUNTER TOP PLAN**
SCALE: 1"=1'-0"

Chick-fil-A
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Atlanta Georgia,
30349-2998

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Clayton Fixture Company, Inc.
"Quality and Service Since 1960"
Store and Restaurant Equipment
Box 157 - 4820 Highway 42 - Ellenwood, Georgia 30294
Phone: (404) 363-1665 Fax: (404) 363-1160

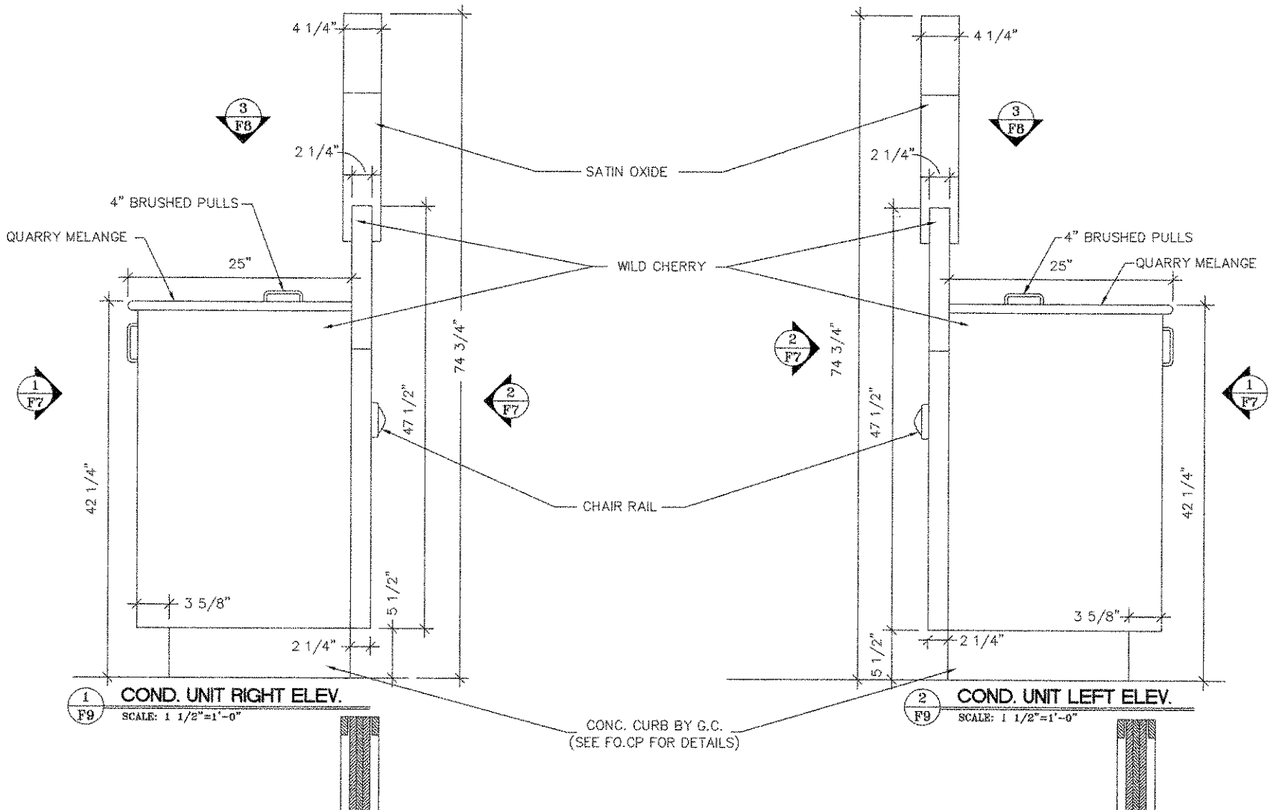
STORE
CHESTERFIELD
FSU
CHESTERFIELD
MO.

SHEET TITLE
COND. UNIT
PLANS

DWG EDITION ...
- ☐ Preliminary
- ☐ 80% Submittal
- ☒ For Construction

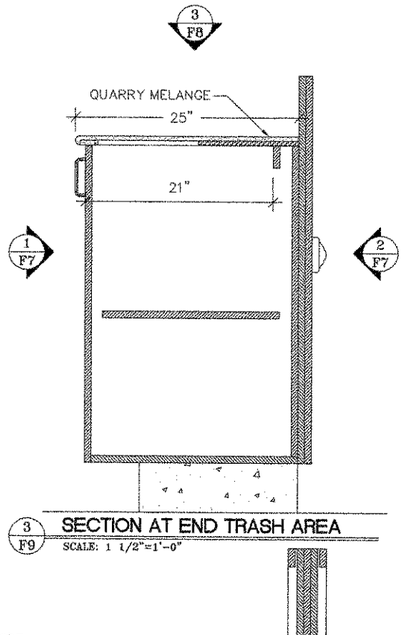
Job No. :1976_07
Store : #1976
Date :2/27/07
Drawn By : DG
Checked By: --

Sheet
F8

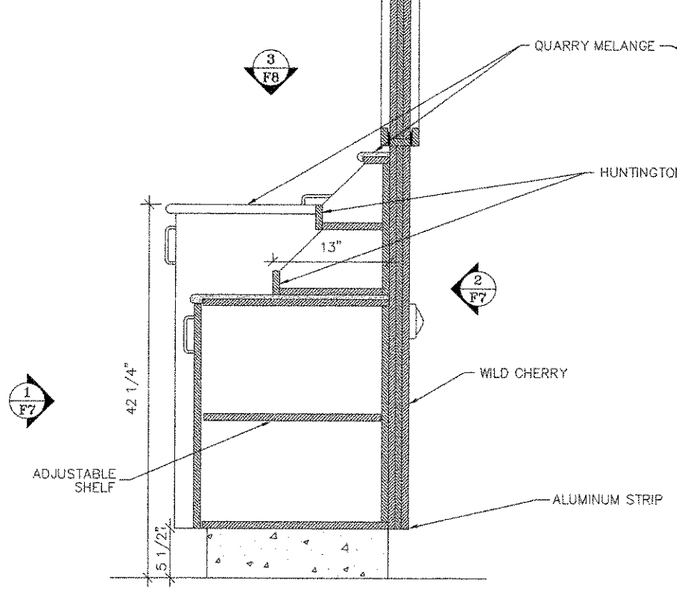


1 F9 COND. UNIT RIGHT ELEV.
SCALE: 1 1/2"=1'-0"

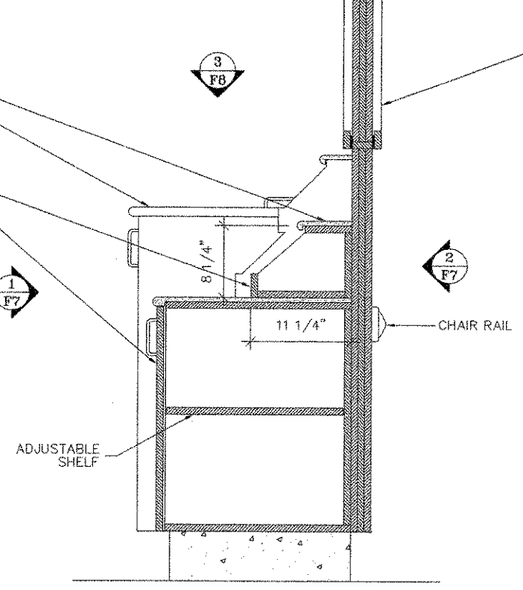
2 F9 COND. UNIT LEFT ELEV.
SCALE: 1 1/2"=1'-0"



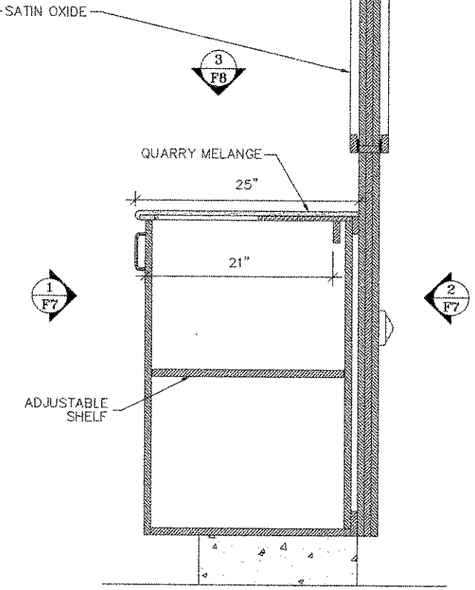
3 F9 SECTION AT END TRASH AREA
SCALE: 1 1/2"=1'-0"



4 F9 SECTION AT DOUBLE BIN
SCALE: 1 1/2"=1'-0"



5 F9 SECTION AT SINGLE BIN
SCALE: 1 1/2"=1'-0"



6 F9 SECTION AT CENTER TRASH AREA
SCALE: 1 1/2"=1'-0"

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Mark	Date	By

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Clayton Fixture Company, Inc.
"Quality and Service Since 1945"
Store Planning Consultant
Box 157 - 4820 Highway 42 - Ellenwood, Georgia 30294
Phone: (404) 363-1685 Fax: (404) 363-1160

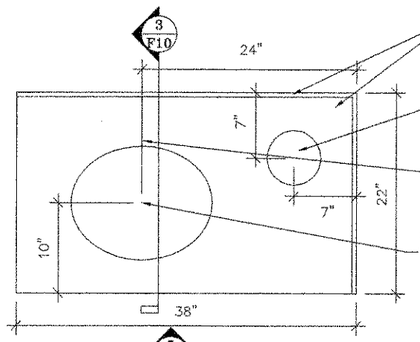
STORE
CHESTERFIELD FSU
CHESTERFIELD MO.

SHEET TITLE
COND. UNIT SECTIONS

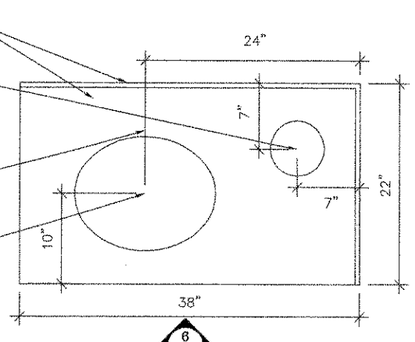
DWG EDITION ...
☐Preliminary
☐80% Submittal
☑For Construction

Job No. :1976_07
Store : #1976
Date :2/27/07
Drawn By : DQ
Checked By: ---

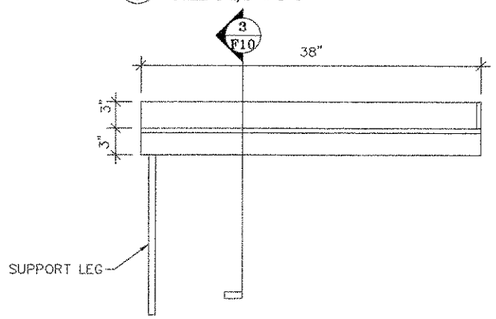
Sheet
F9



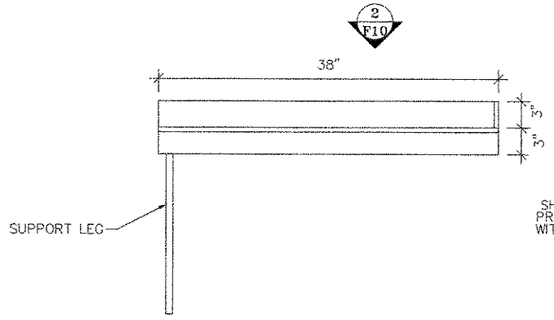
1 F10 **MEN'S ROOM LAV.- PLAN VIEW**
SCALE: 1-1/2" = 1'-0"



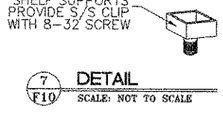
2 F10 **WOMEN'S ROOM LAV. - PLAN VIEW**
SCALE: 1-1/2" = 1'-0"



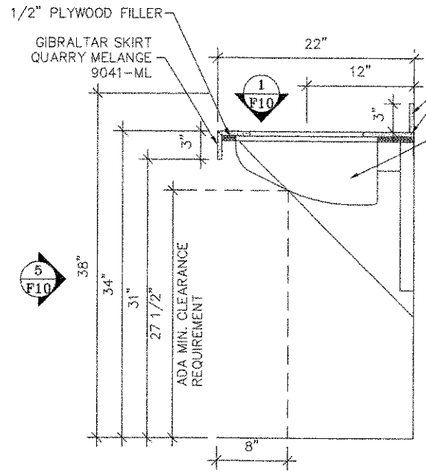
5 F10 **MEN'S ROOM LAV.- ELEVATION**
SCALE: 1-1/2" = 1'-0"



6 F10 **WOMEN'S ROOM LAV. - ELEVATION**
SCALE: 1-1/2" = 1'-0"

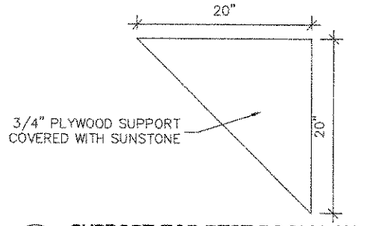


7 F10 **DETAIL**
SCALE: NOT TO SCALE

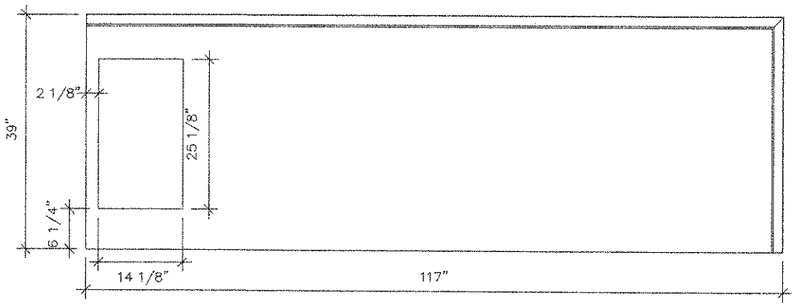


NOTE: MOUNTING HEIGHT CRITICAL
TO MAINTAIN ADA CLEARANCES

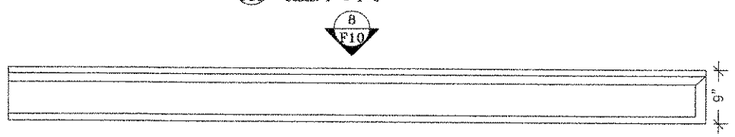
3 F10 **SECTION - LAVATORY**
SCALE: 1-1/2" = 1'-0"



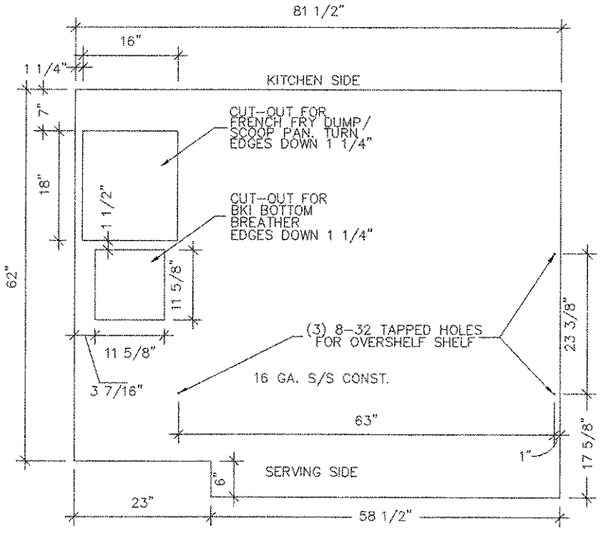
4 F10 **SUPPORT FOR REST ROOM LAV.**
SCALE: 1-1/2" = 1'-0"



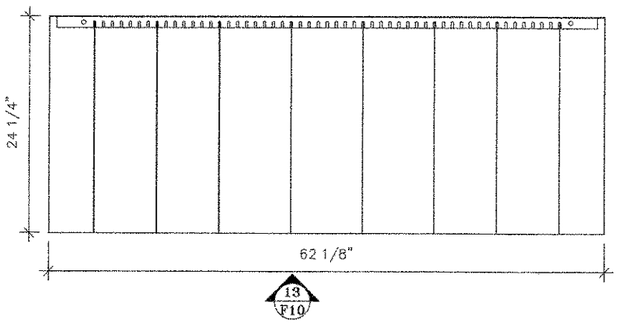
8 F10 **SPECIALS TOP - PLAN**
SCALE: 1" = 1'-0"



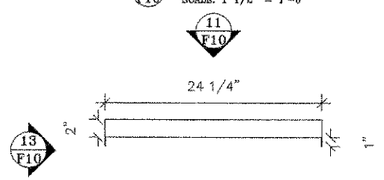
9 F10 **SPECIALS TOP - ELEV.**
SCALE: 1" = 1'-0"



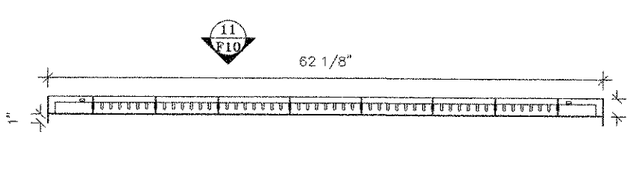
10 F10 **ORDER PREP COUNTER TOP - PLAN**
SCALE: 1" = 1'-0"



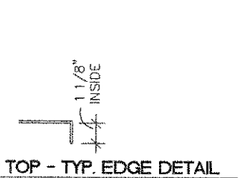
13 F10 **MERCO DIVIDER - PLAN**
SCALE: 1 1/2" = 1'-0"



12 F10 **MERCO DIVIDER - SIDE ELEV.**
SCALE: 1 1/2" = 1'-0"



13 F10 **MERCO DIVIDER - FRONT ELEV.**
SCALE: 1 1/8" = 1'-0"



14 F10 **OP TOP - TYP. EDGE DETAIL**
SCALE: 3" = 1'-0"

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Store and Restaurant Equipment
Box 157 - 4820 Highway 42 - Ellenwood, Georgia 30294
Phone: (404) 363-1865 Fax: (404) 363-1160

STORE
CHESTERFIELD
FSU
CHESTERFIELD
MO.

SHEET TITLE
RESTROOM
VANITIES

DWG EDITION ...
☐Preliminary
☐80% Submittal
☒For Construction

Job No. :1976_07
Store : #1976
Date :2/27/07
Drawn By : DQ
Checked By: --

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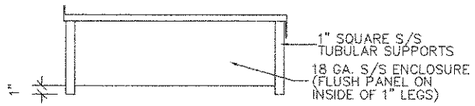
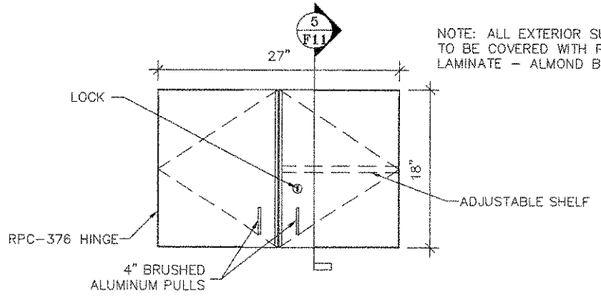
F10

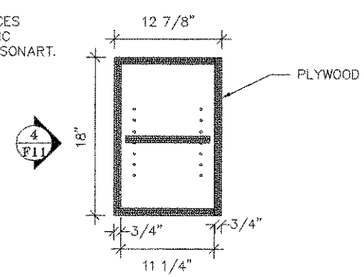


1 / F11 ELEV. - LEFT
SCALE: 1 1/2" = 1'-0"

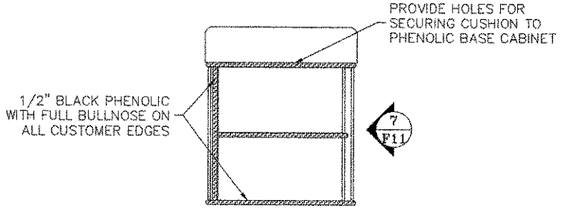


NOTE: ALL EXTERIOR SURFACES TO BE COVERED WITH PLASTIC LAMINATE - ALMOND BY WILSONART.

4 / F11 MOP SINK CABINET - ELEVATION
SCALE: 1 1/2"=1'-0"

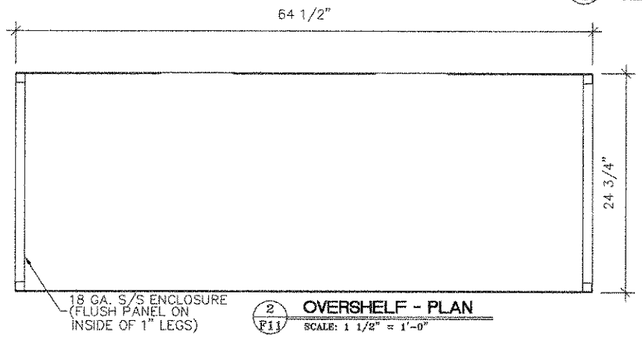


5 / F11 MOP SINK CABINET - SECTION
SCALE: 1 1/2"=1'-0"

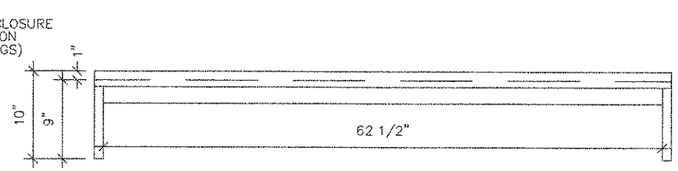


6 / F11 SNEAKER KEEPER - SECTION
SCALE: 1 1/2" = 1'-0"

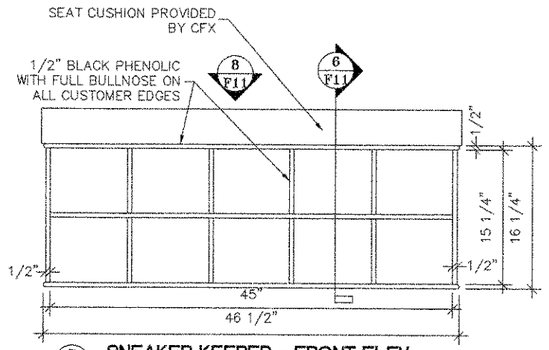
SECURE SNEAKER KEEPER TO FLOOR OR WALL. MINIMUM 4 PLACES



2 / F11 OVERSHELF - PLAN
SCALE: 1 1/2" = 1'-0"



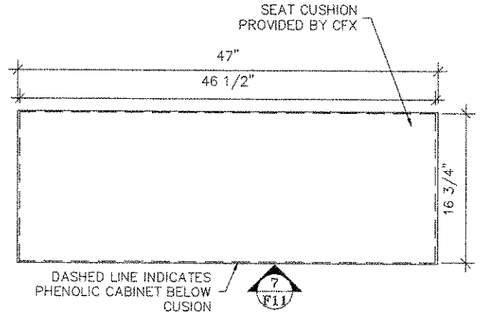
3 / F11 ELEV. - FRONT
SCALE: 1 1/2" = 1'-0"



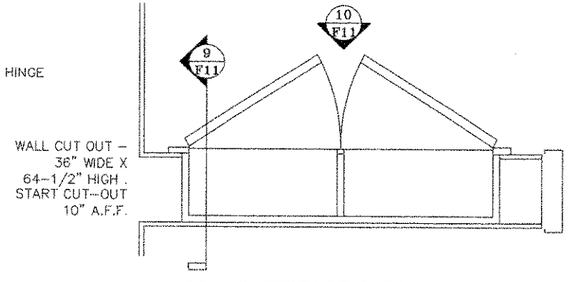
7 / F11 SNEAKER KEEPER - FRONT ELEV.
SCALE: 1 1/2" = 1'-0"

9 / F11 RR STORAGE CABINET - SECTION
SCALE: 1 1/2"=1'-0"

10 / F11 RR STORAGE CABINET - ELEVATION
SCALE: 1 1/2"=1'-0"



8 / F11 SNEAKER KEEPER - PLAN VIEW
SCALE: 1 1/2" = 1'-0"



11 / F11 RR STORAGE CABINET - PLAN
SCALE: 1 1/2"=1'-0"

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"Quality and Service Since 1967"
Store and Restaurant Equipment
Box 157 - 4820 Highway 42 - Ellenwood, Georgia 30294
Phone: (404) 365-1865 Fax: (404) 363-1160

Revisions:

Mark	Date	By

Seal

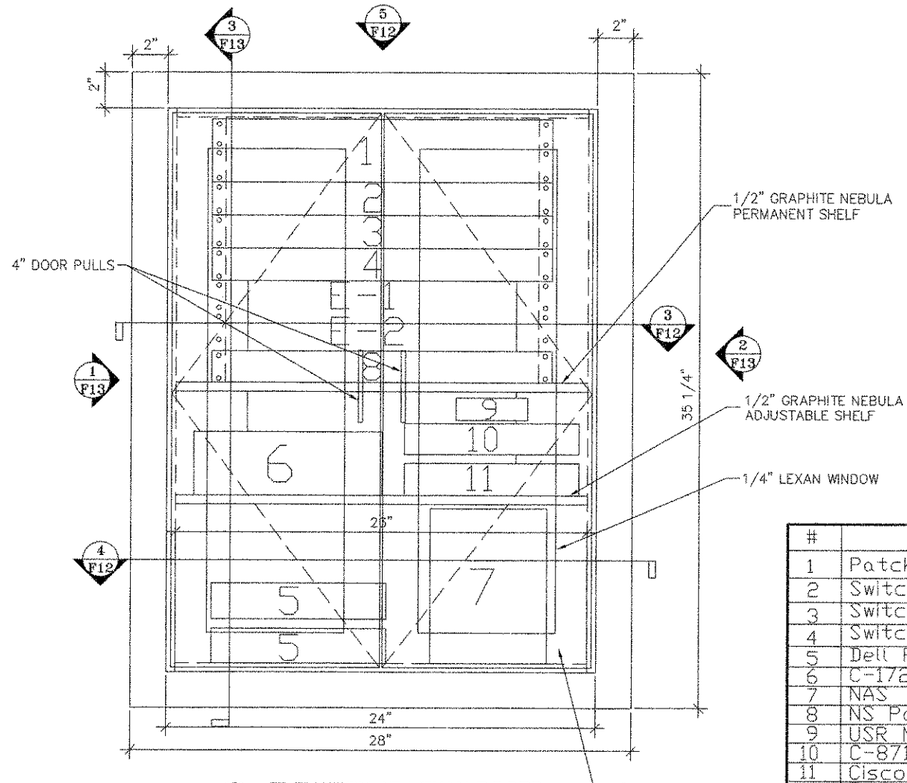
STORE
CHESTERFIELD
FSU
CHESTERFIELD
MO.

SHEET TITLE
SNEAKER KEEPER

DWG EDITION ...
- ☐ Preliminary
- ☐ 80% Submittal
- ☒ For Construction

Job No. :1976.07
Store : #1976
Date :2/27/07
Drawn By : DQ
Checked By: ---

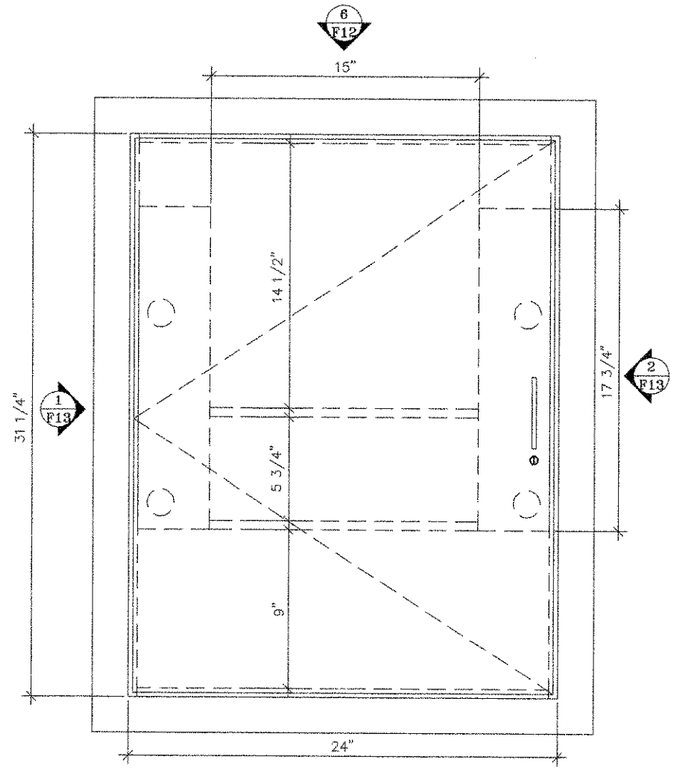
Sheet
F11



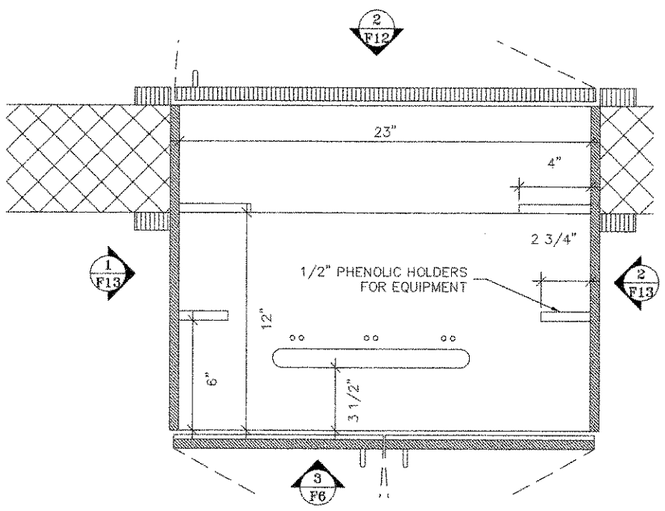
1 F12 **ELEVATION AT LEXAN DOORS**
SCALE: 1/4" = 1'-0"

CABINET CONSTRUCTED OF
GRAPHITE NEBULA 1/2"
PHENOLIC

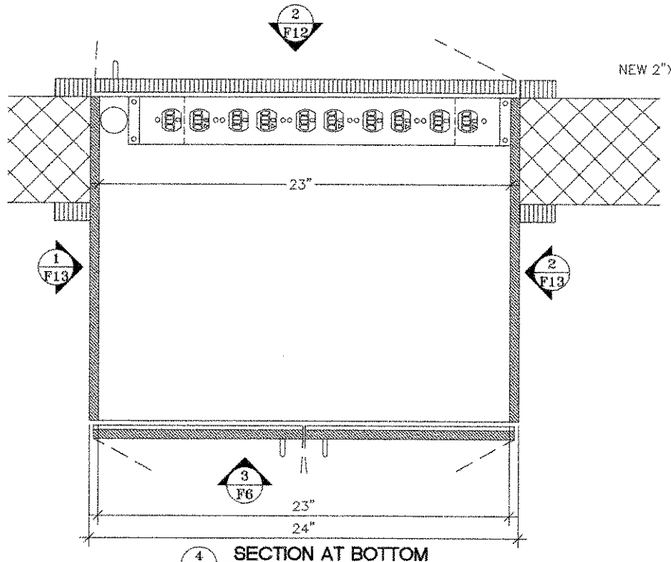
#		H	W	D	WEIGHT
1	Patch Panel	3.5"	19"	1.5"	?
2	Switch 1	1.7"	13"	9"	?
3	Switch 2	1.7"	13"	9"	?
4	Switch 3	1.7"	10.5"	6.3"	?
5	Dell PC's	3.5"	10.3"	9.9"	?
6	C-1721 ISP	3.1"	11.2"	8.7"	?
7	NAS	9.7"	6.75"	11.75"	?
8	NS Power Strip	1U	?	?	?
9	USR Modem	?	?	?	?
10	C-871 LAN Modem	?	?	?	?
11	Cisco 871 CPE	?	?	?	?
E-1	Expansion 1	1U	?	?	?
E-2	Expansion 2	2U	?	?	?
	Cabinet	31.25	24	18.0	?



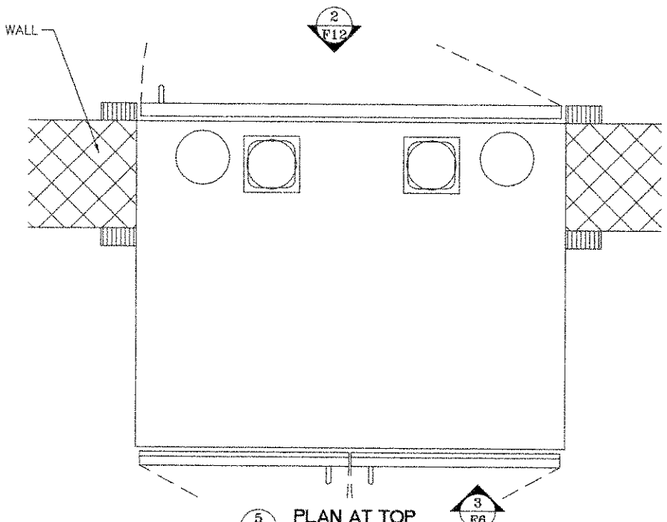
2 F12 **ELEVATION AT PLYWOOD DOOR**
SCALE: 1/4" = 1'-0"



3 F12 **SECTION AT TOP SHELF**
SCALE: 1/4" = 1'-0"



4 F12 **SECTION AT BOTTOM**
SCALE: 1/4" = 1'-0"



5 F12 **PLAN AT TOP**
SCALE: 1/4" = 1'-0"

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Atlanta Georgia,
30349--2998

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△		
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"Quality and Service Since 1903"
Store Design Equipment
Box 157 – 4820 Highway 42 – Ellenwood, Georgia 30294
Phone: (404) 363-1665 Fax: (404) 363-1160

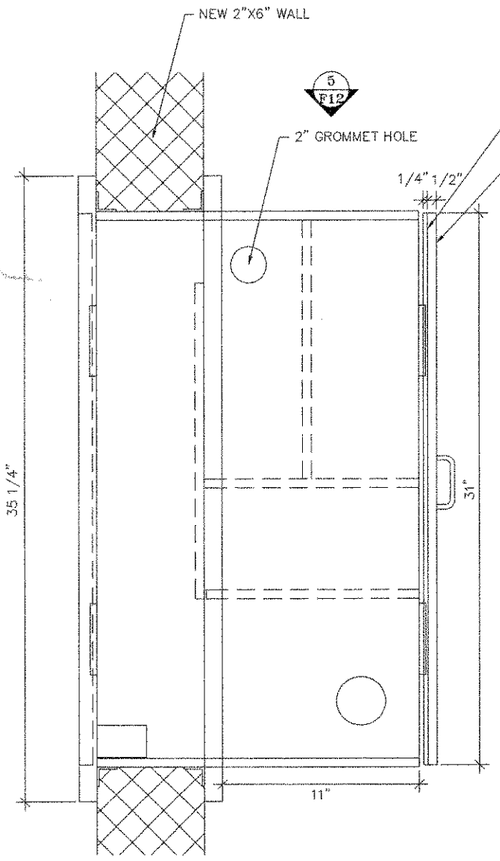
STORE
CHESTERFIELD
FSU
CHESTERFIELD
MO.

SHEET TITLE
NETWORK
CABINET

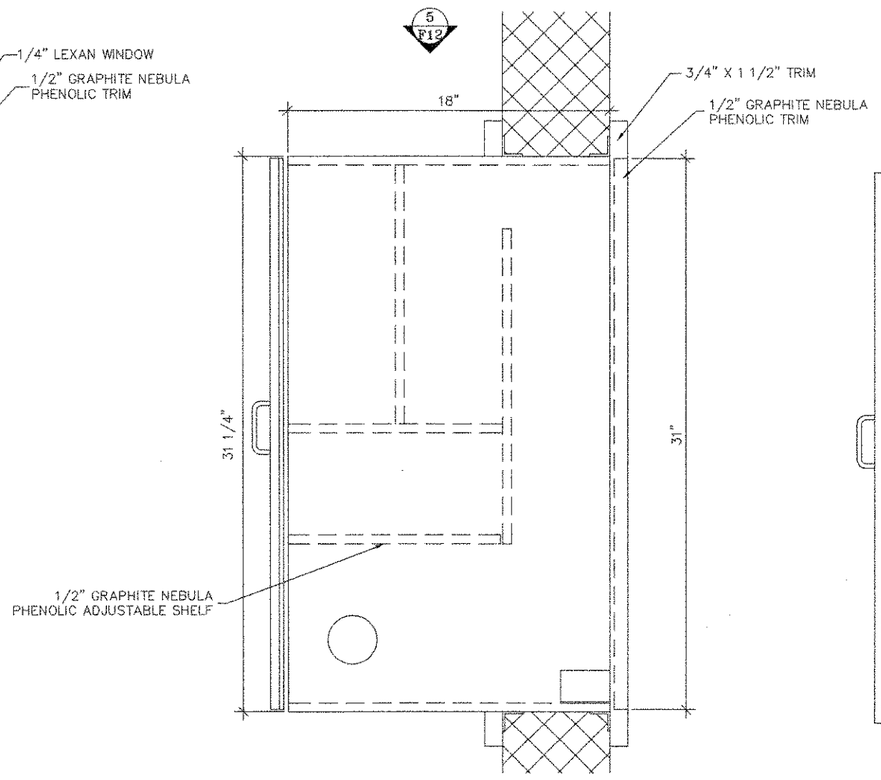
DWG EDITION ...
☐Preliminary
☐80% Submittal
☑For Construction

Job No. :1976_07
Store : #1976
Date :2/27/07
Drawn By : DO
Checked By: ---

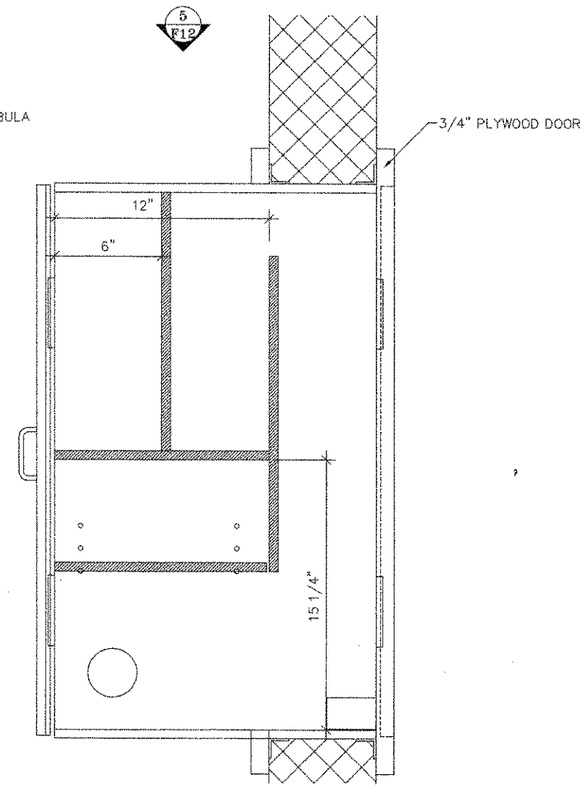
Sheet
F12



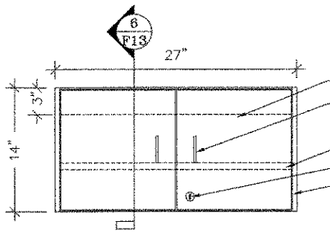
1 F13 LEFT ELEVATION
SCALE: 4" = 1' - 0"



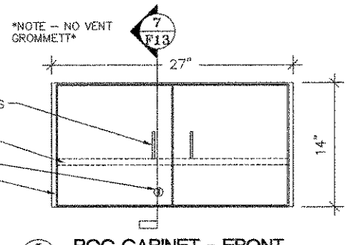
2 F13 RIGHT ELEVATION
SCALE: 4" = 1' - 0"



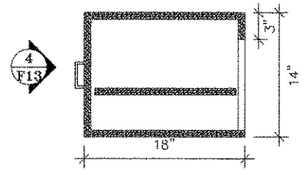
3 F13 SECTION
SCALE: 4" = 1' - 0"



4 F13 VCR CABINET - FRONT
SCALE: 1 1/2"=1'-0"

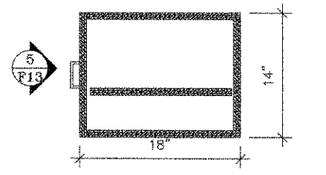


5 F13 BOG CABINET - FRONT
SCALE: 1 1/2"=1'-0"



6 F13 VCR CABINET - SECTION
SCALE: 1 1/2"=1'-0"

NOTE: ALL EXTERIOR SURFACES TO BE COVERED WITH PLASTIC LAMINATE - BLACK BY WILSONART. INTERIOR SURFACES TO BE WHITE. CABINET TO BE TOTALLY CONSTRUCTED OF 3/4" PLYWOOD.



7 F13 BOG CABINET - SECTION
SCALE: 1 1/2"=1'-0"

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Atlanta Georgia,
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Mark	Date	By

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"Quality and Service Since 1963"
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STORE

MO.

SHEET TITLE
NETWORK CABINET

DWG EDITION
☐Preliminary
☐80% Submitt
☒For Constru

Job No. :19
Store :
Date :2
Drawn By :
Checked By:

Sheet
F13